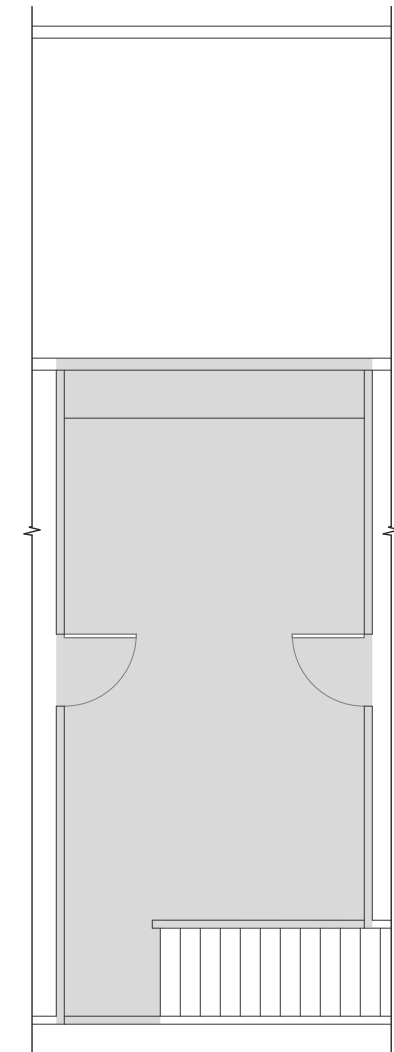


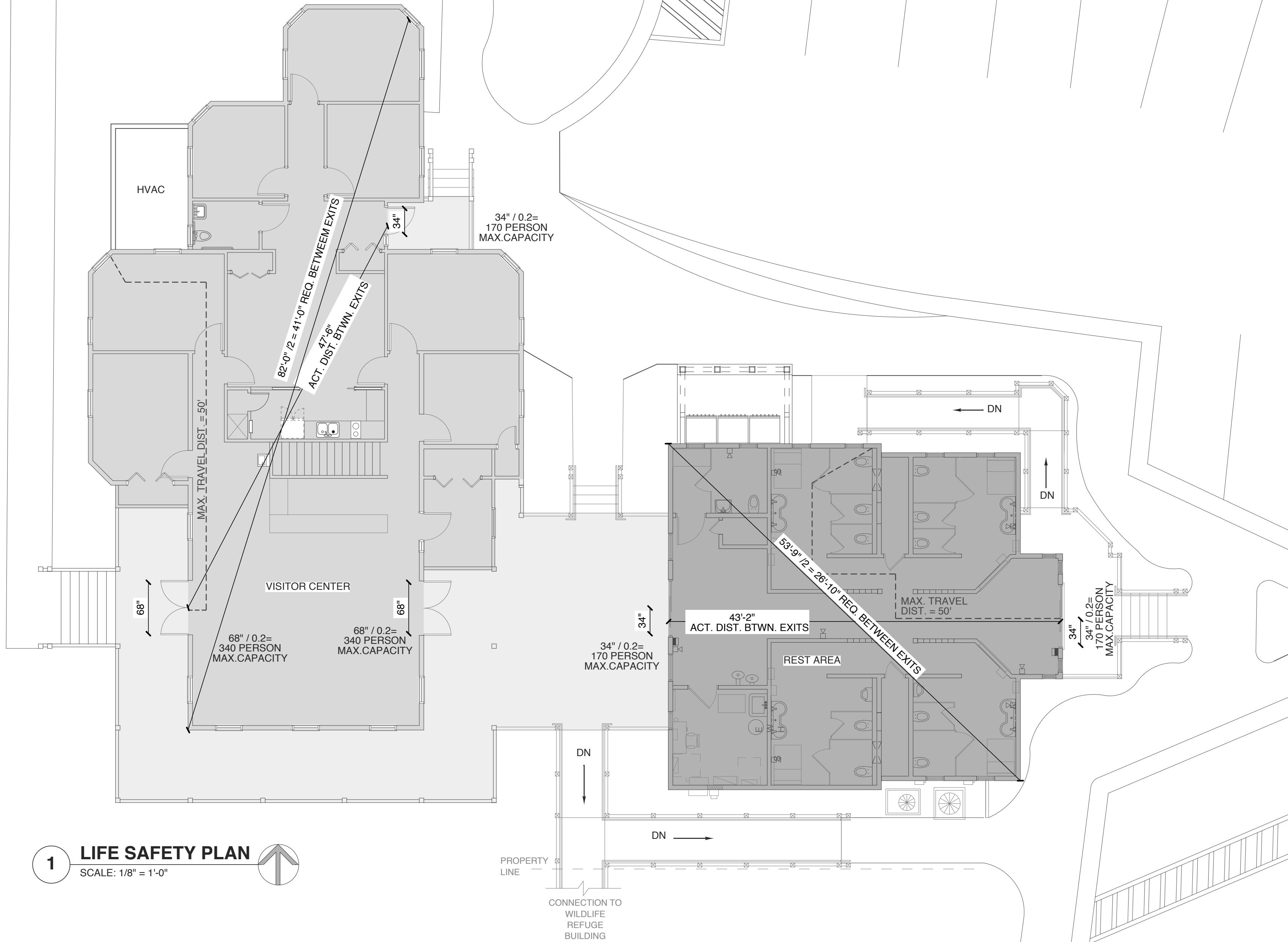


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E9028345662C422
2/27/2019

2 MEZZANINE
SCALE: 1/8" = 1'-0"



1 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"



AREAS	
1,516 SF	EXISTING REST AREA
2,922 SF	EXISTING VISITOR CENTER
1326 SF	EXISTING PORCH AREA
5,764 SF	TOTAL AREA

EGRESS REQ. & CODE REF.	
REST AREA USE: BUSINESS 1,516 SF/100 = 15 PEOPLE	
VISITOR CENTER USE: BUSINESS 2,592 SF/100 = 26 PEOPLE	
20 x 0.2' = 4.0' CLEAR EGRESS WIDTH PER 1005.1 OF NCSBC	
SINGLE EXIT PER TABLE 1015.1 (LESS THAN 49 PERSONS) & 1014.3 (LESS THAN 100 FT. EGRESS TRAVEL) OF NCSBC	
DOORS TO HAVE 32" MIN. CLR. PER 404.2.2 OF ANSI A117.1	
THE CLEAR WIDTH OF INTERIOR ACCESSIBLE ROUTE IS 36" MIN. PER 403.5 OF ANSI A117.1	

WBS: 15RE.12.1.3

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a

DRAWING TITLE
LIFE SAFETY

SHEET 2 OF 11

A0.2

PLOT DATE 2/25/19
REVISION 00/00/08

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DEMOLITION & CONSTRUCTION NOTES

ALL MATERIALS SHALL BE NEW AND OF QUANTITY SPECIFIED, EXCEPT WHERE RECLAIMED MATERIAL IS INDICATED FOR USE. WORKMANSHIP SHALL AT ALL TIMES BE OF A GRADE ACCEPTED AS THE BEST PRACTICE OF THE PARTICULAR TRADE INVOLVED, AND AS STIPULATED IN WRITTEN STANDARDS OF RECOGNISED ORGANIZATIONS OR INSTITUTES OF THE RESPECTIVE TRADES EXCEPT AS EXCEEDED OR QUALIFIED BY THE SPECIFICATIONS.

ITEMS RESULTING FROM THE DEMOLITION AND ITEMS WHICH ARE NOT TO BE RETURNED TO THE OWNER AS NOTED IN THE CONTRACT DOCUMENTS, SHALL BE REMOVED FROM THE SITE, AS THE WORK PROGRESSES, AND DISPOSED OF IN A LEGAL MANNER.

THE CONTRACTOR SHALL REVIEW EACH PHASE OF THE WORK PRIOR TO PROCEEDING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS THAT WILL RESULT IN CHANGES TO THE WORK.

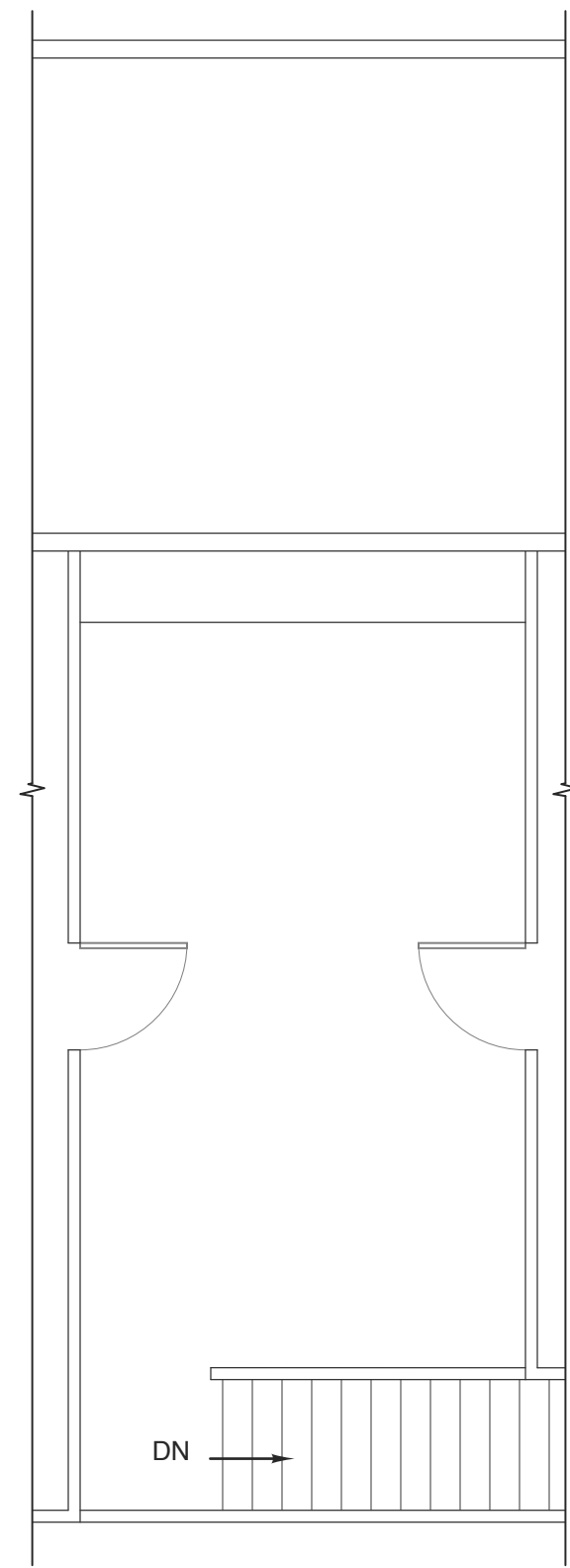
THE EXISTING STRUCTURE SHALL NOT BE ALTERED EXCEPT AS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT CUT, NOTCH, BLOCK OR RELOCATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.

AREA OUTSIDE OF AREA OF WORK TO REMAIN CLEAR AND CLEAN OF DEBRIS, EQUIPMENT ETC. AT ALL TIMES.

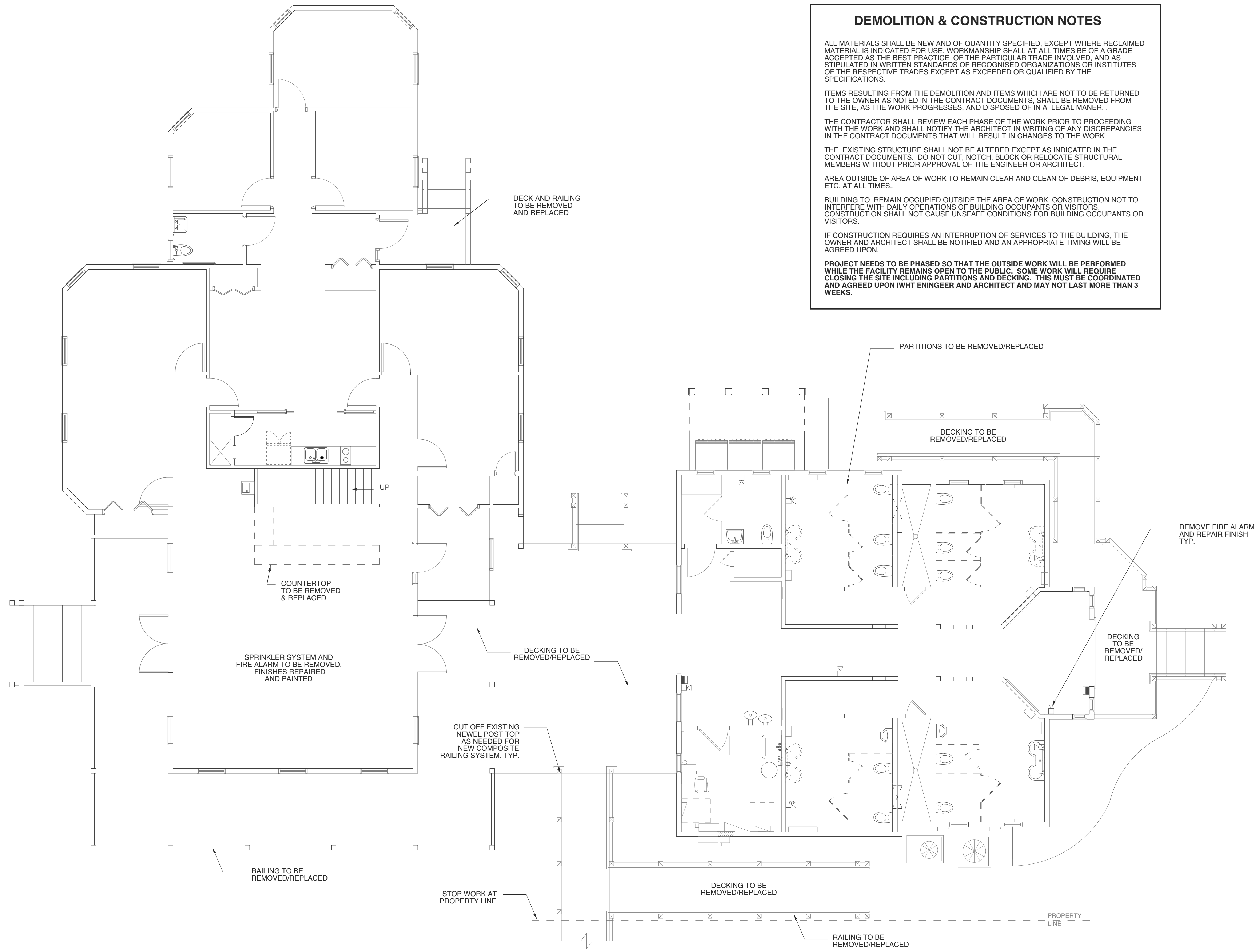
BUILDING TO REMAIN OCCUPIED OUTSIDE THE AREA OF WORK. CONSTRUCTION NOT TO INTERFERE WITH DAILY OPERATIONS OF BUILDING OCCUPANTS OR VISITORS. CONSTRUCTION SHALL NOT CAUSE UNSAFE CONDITIONS FOR BUILDING OCCUPANTS OR VISITORS.

IF CONSTRUCTION REQUIRES AN INTERRUPTION OF SERVICES TO THE BUILDING, THE OWNER AND ARCHITECT SHALL BE NOTIFIED AND AN APPROPRIATE TIMING WILL BE AGREED UPON.

PROJECT NEEDS TO BE PHASED SO THAT THE OUTSIDE WORK WILL BE PERFORMED WHILE THE FACILITY REMAINS OPEN TO THE PUBLIC. SOME WORK WILL REQUIRE CLOSING THE SITE INCLUDING PARTITIONS AND DECKING. THIS MUST BE COORDINATED AND AGREED UPON WITH ENGINEER AND ARCHITECT AND MAY NOT LAST MORE THAN 3 WEEKS.



2 MEZZANINE
SCALE: 3/16" = 1'-0"



1 DEMO PLAN
SCALE: 3/16" = 1'-0"

WBS: 15RE.12.1.3

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a
DRAWING TITLE
DEMO PLAN

SHEET 3 OF 11

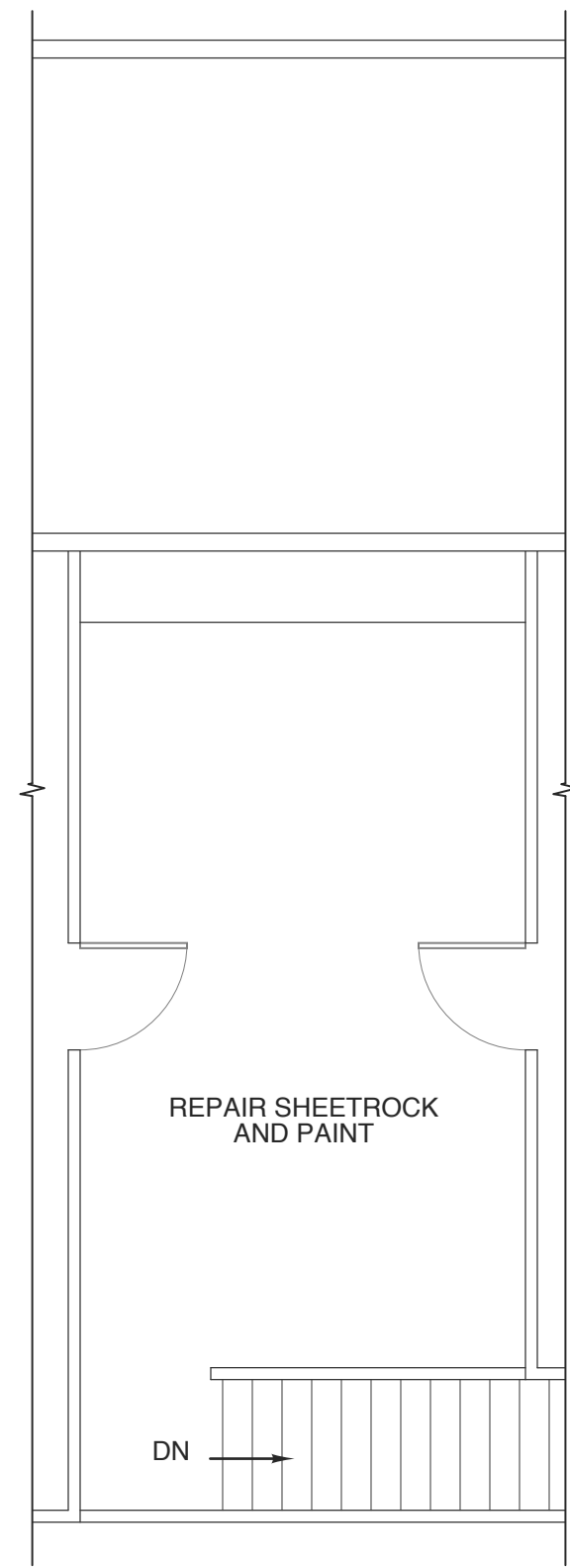
A1.1

PLOT DATE 2/25/19
REVISION 00/00/08

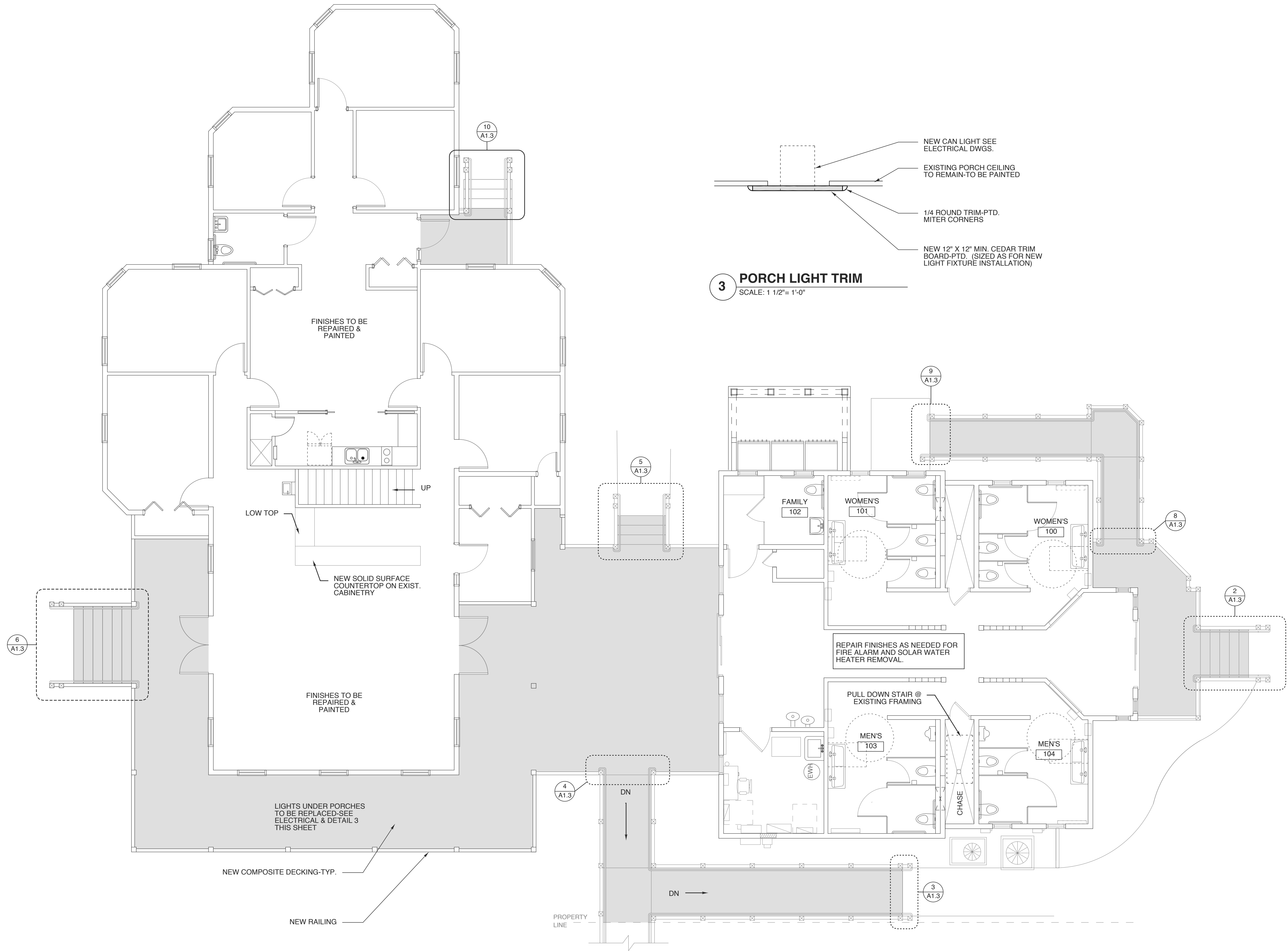
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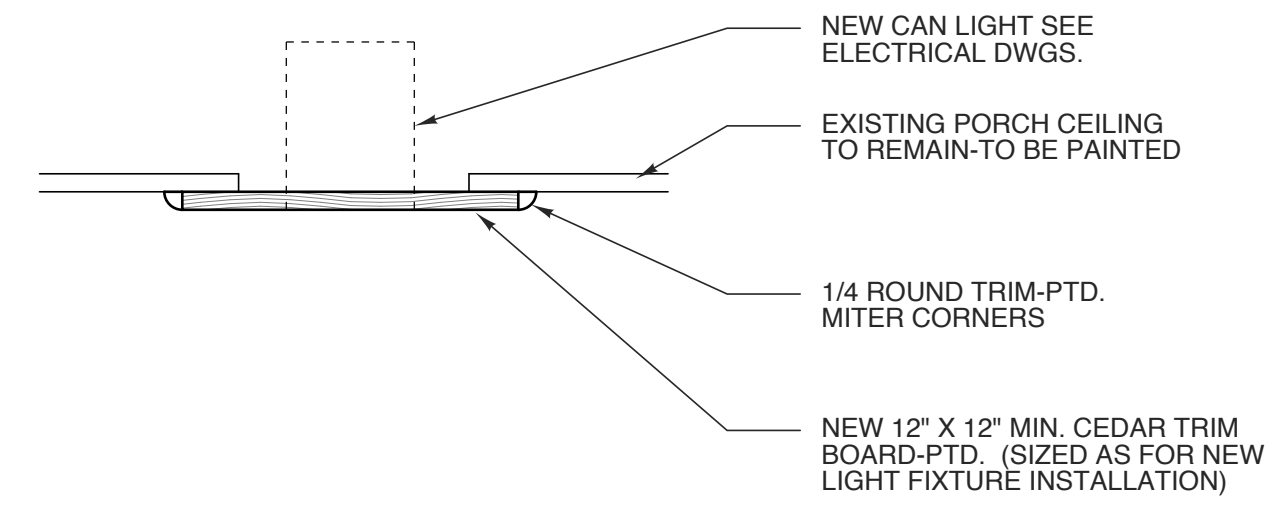
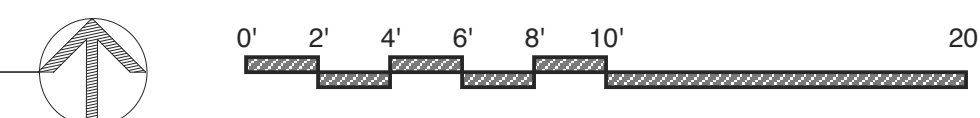
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2/27/2019



2 MEZZANINE
SCALE: 3/16" = 1'-0"



1 FLOOR PLAN
SCALE: 3/16" = 1'-0"



3 PORCH LIGHT TRIM
SCALE: 1 1/2" = 1'-0"

WBS: 15RE.12.1.3

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a

DRAWING TITLE
FLOOR PLAN

SHEET 4 OF 11

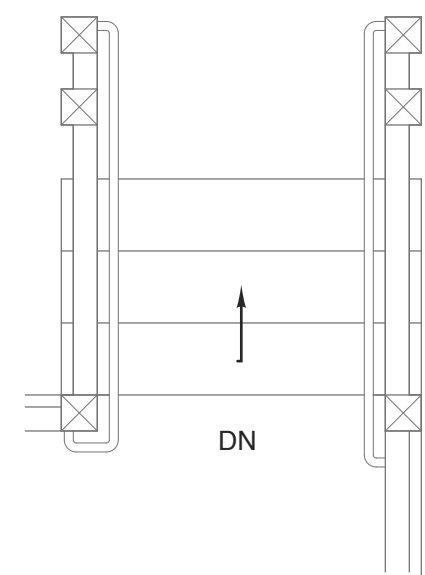
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PLOT DATE 2/25/19
REVISION 00/00/08

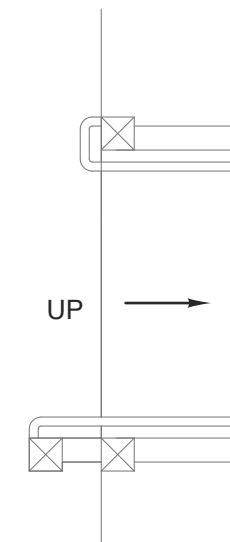
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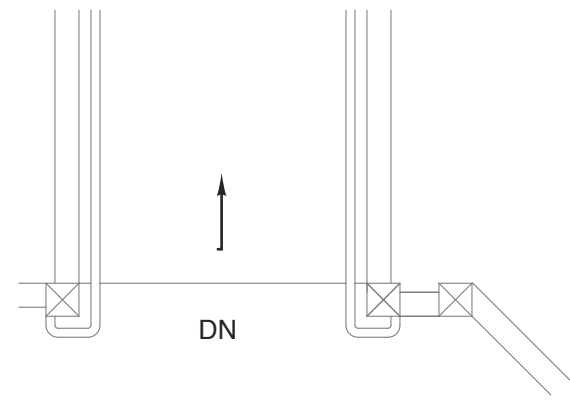
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2/27/2019



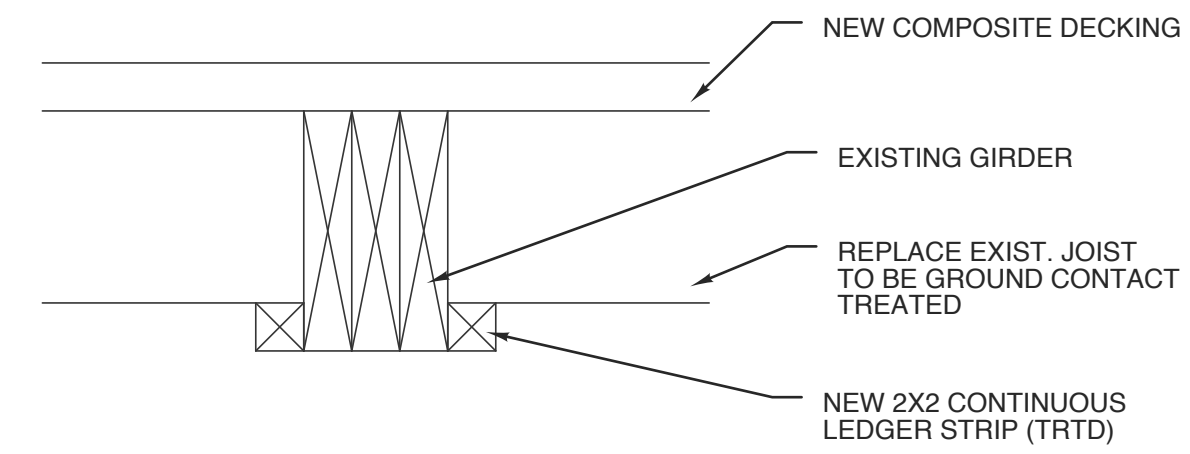
10 ENLARGED STAIR
SCALE: 3/8" = 1'-0"



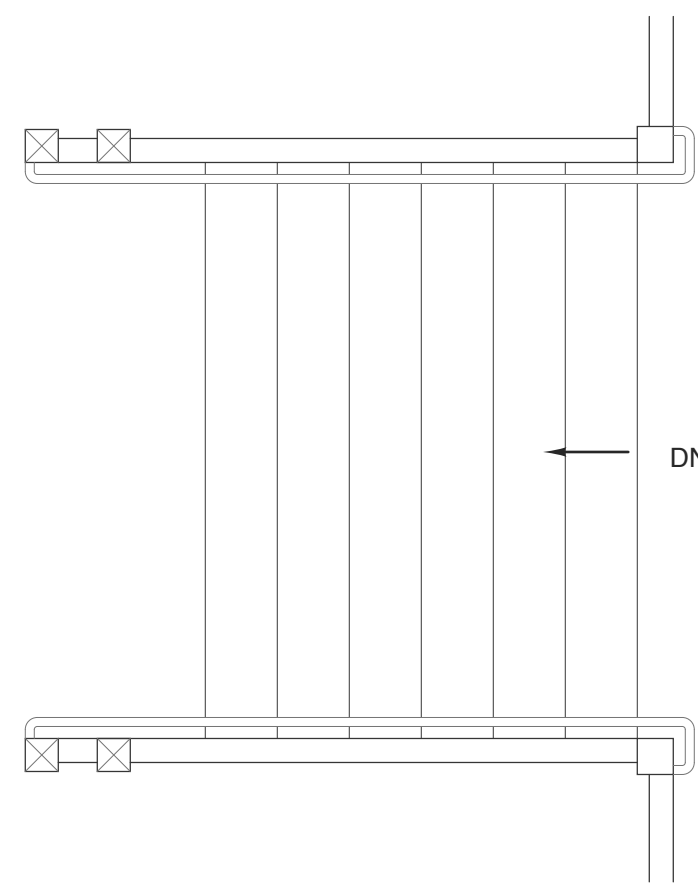
9 ENLARGED RAMP
SCALE: 3/8" = 1'-0"



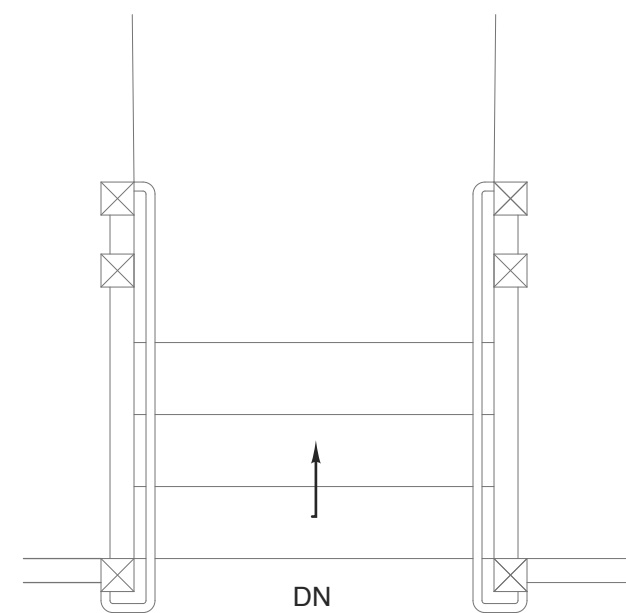
8 ENLARGED RAMP
SCALE: 3/8" = 1'-0"



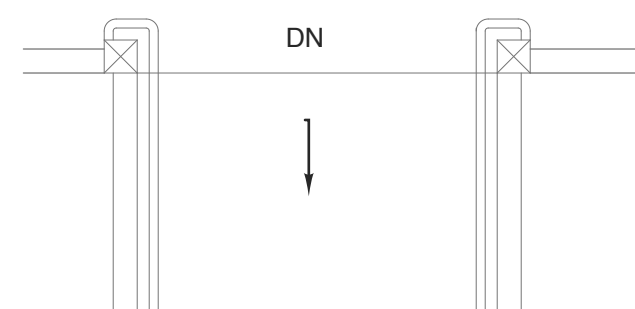
7 DETAIL
SCALE: 1 - 1/2" = 1'-0"



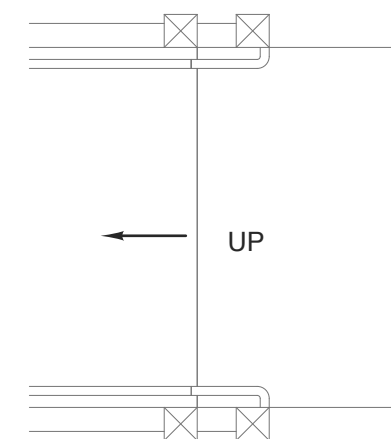
6 ENLARGED STAIR
SCALE: 3/8" = 1'-0"



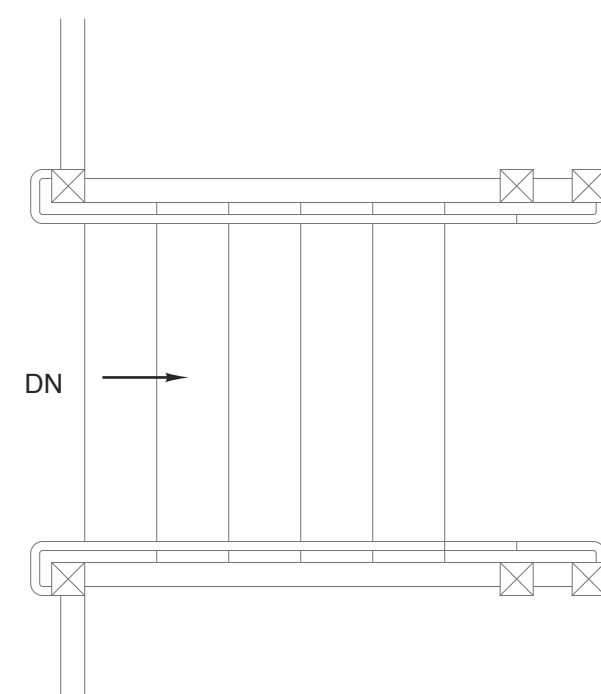
5 ENLARGED STAIR
SCALE: 3/8" = 1'-0"



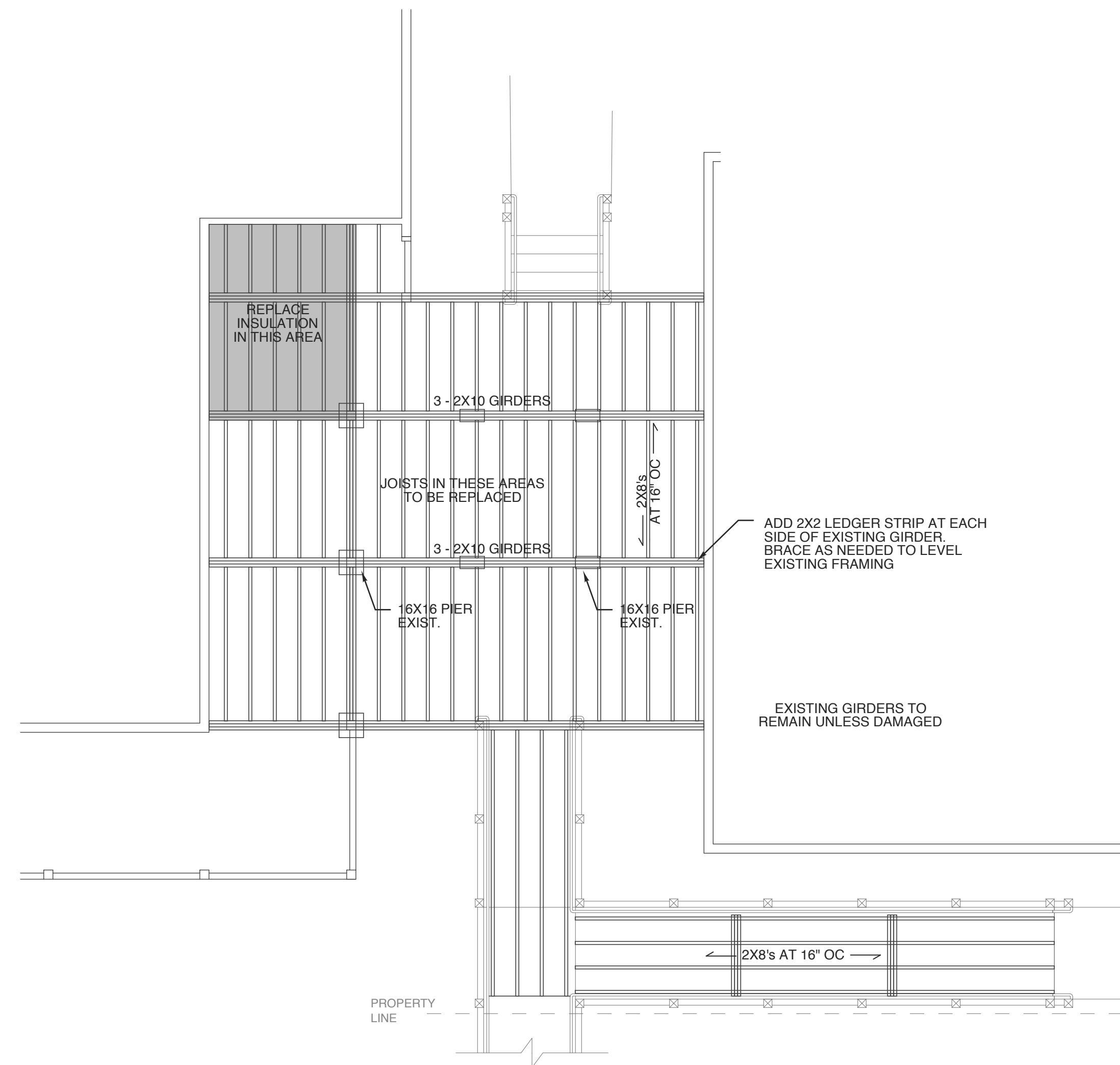
4 ENLARGED RAMP
SCALE: 3/8" = 1'-0"



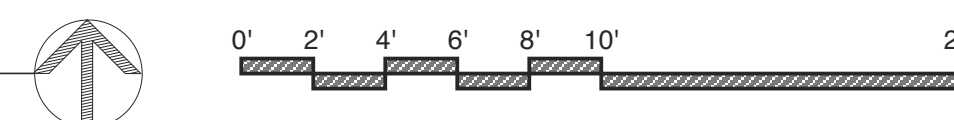
3 ENLARGED RAMP
SCALE: 3/8" = 1'-0"



2 ENLARGED STAIR
SCALE: 3/8" = 1'-0"



1 FRAMING PLAN
SCALE: 3/16" = 1'-0"



WBS: 15RE.12.1.3

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a

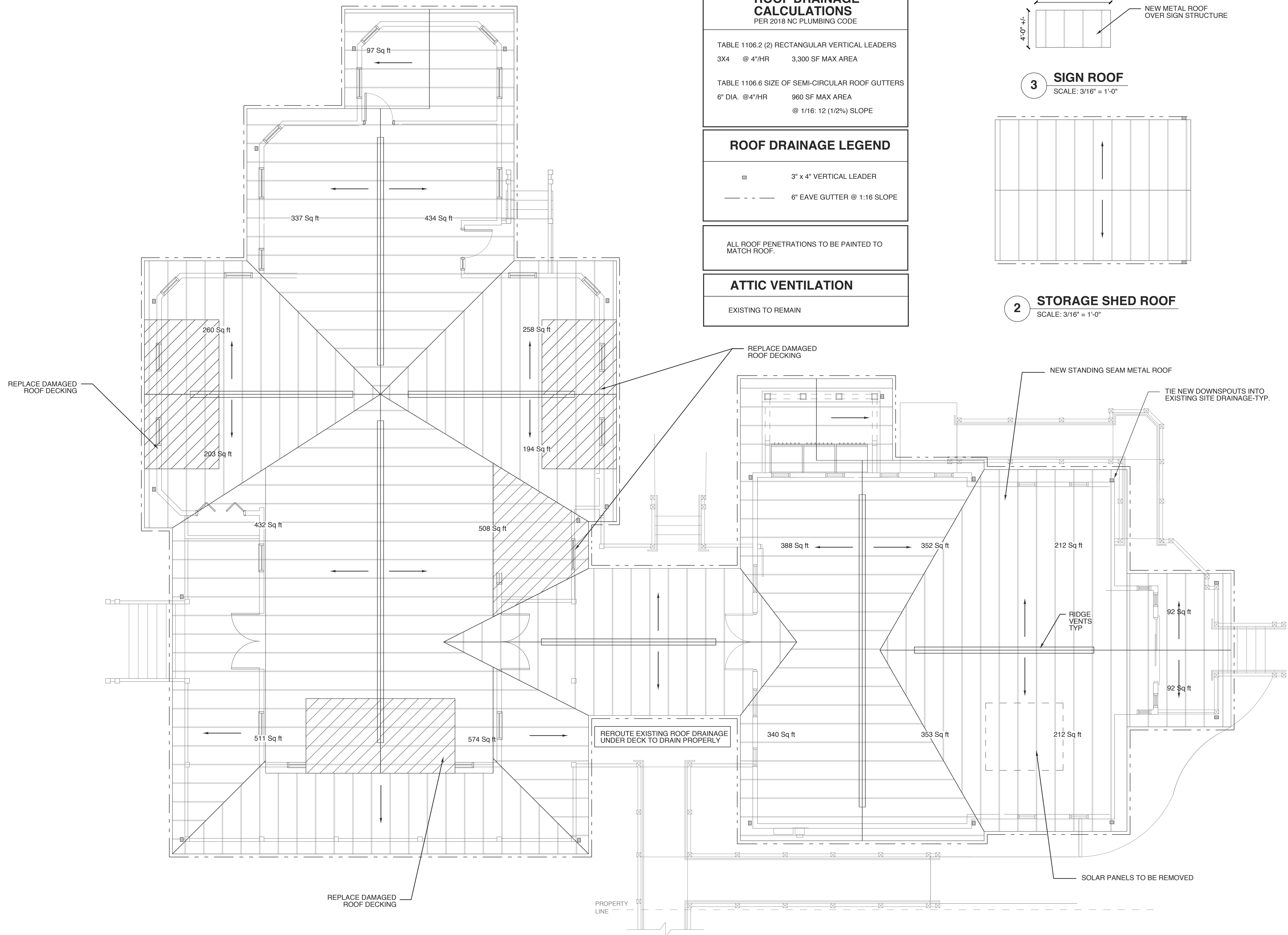
DRAWING TITLE
FRAMING PLAN

SHEET 5 OF 11

A1.3

PLOT DATE 2/25/19
REVISION 00/00/08

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ROOF DRAINAGE CALCULATIONS
PER 2018 NC PLUMBING CODE

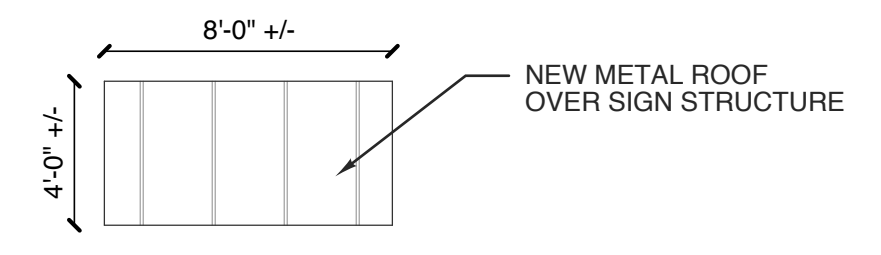
TABLE 1106.2 (2) RECTANGULAR VERTICAL LEADERS	3X4 @ 4"/HR	3,300 SF MAX AREA
TABLE 1106.6 SIZE OF SEMI-CIRCULAR ROOF GUTTERS	6" DIA. @ 4"/HR	960 SF MAX AREA @ 1/16: 12 (1/2%) SLOPE

ROOF DRAINAGE LEGEND

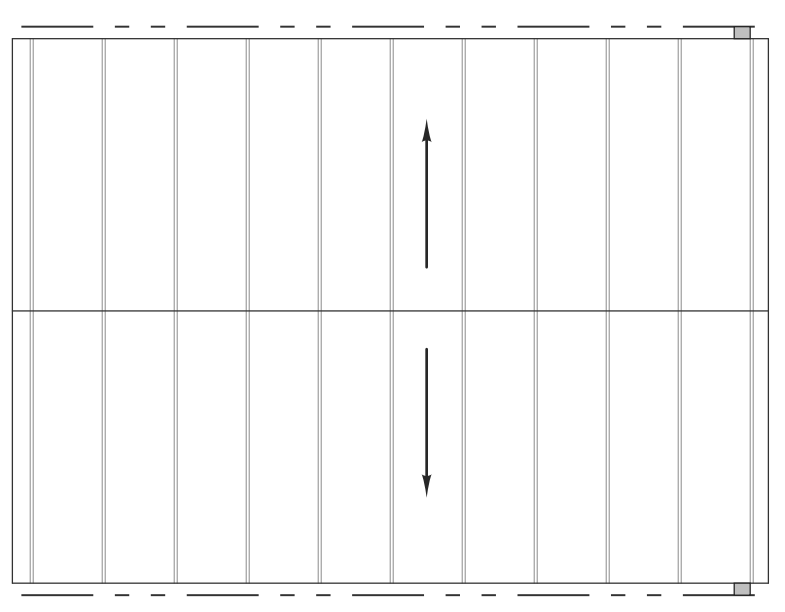
	3" x 4" VERTICAL LEADER
	6" EAVE GUTTER @ 1:16 SLOPE

ALL ROOF PENETRATIONS TO BE PAINTED TO MATCH ROOF.

ATTIC VENTILATION
EXISTING TO REMAIN



3 SIGN ROOF
SCALE: 3/16" = 1'-0"



2 STORAGE SHED ROOF
SCALE: 3/16" = 1'-0"

1 ROOF PLAN
SCALE: 3/16" = 1'-0"



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WBS: 15RE.12.1.3

PROJECT TITLE
TYRRELL CTY. REST AREA & VISITOR'S CTR.
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a
DRAWING TITLE
ROOF PLAN

SHEET 6 OF 11

A1.4

PLOT DATE 2/26/19
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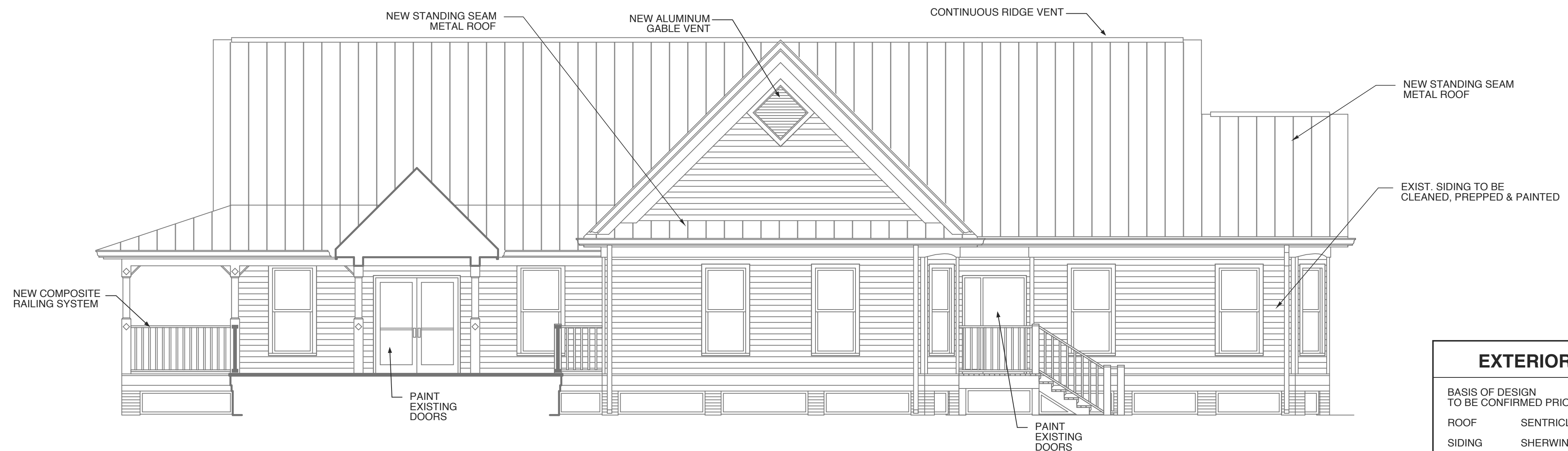
4 VISITOR CENTER ELEVATION WEST
SCALE: 3/16" = 1'-0"



3 REST AREA ELEVATION EAST
SCALE: 3/16" = 1'-0"



2 REST AREA ELEVATION WEST
SCALE: 3/16" = 1'-0"



1 VISITOR CENTER ELEVATION EAST
SCALE: 3/16" = 1'-0"

WBS: 15RE.12.1.3

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a

DRAWING TITLE
ELEVATIONS

SHEET 7 OF 11

A2.1

PLOT DATE 2/27/19
REVISION 00/00/08

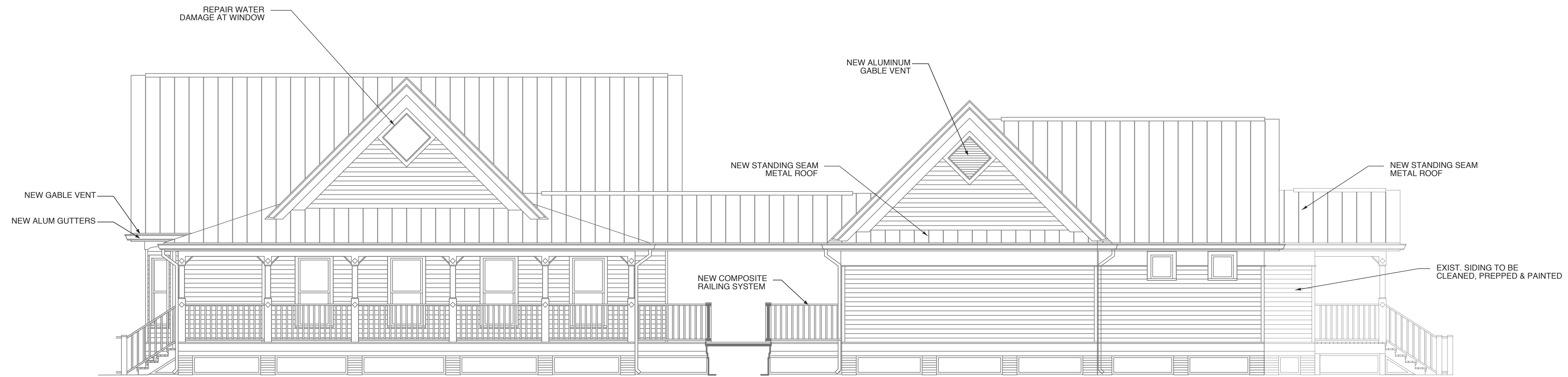
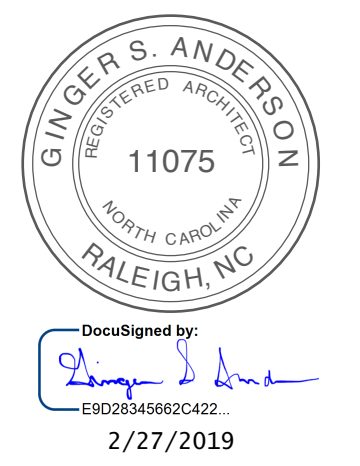
EXTERIOR COLORS	
BASIS OF DESIGN TO BE CONFIRMED PRIOR TO ORDERING	
ROOF	SENTRICLAD STONE GRAY
SIDING	SHERWIN-WILLIAMS DOVETAIL
TRIM	SHERWIN-WILLIAMS ACIER
EXTERIOR TO BE CLEANED AND PREPPED PRIOR TO PAINTING. SEE SPEC SECTION 0900.	
ALUMINUM FLASHING TO BE CLEANED, SCRAPPED, ABRASSED & PRIMED PRIOR TO PAINTING	

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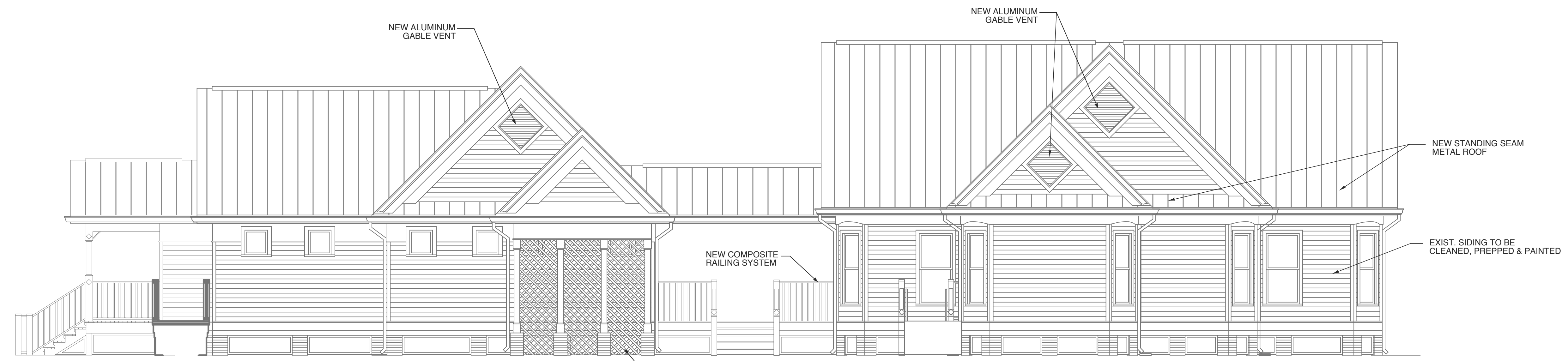
EXTERIOR COLORS	
BASIS OF DESIGN TO BE CONFIRMED PRIOR TO ORDERING	
ROOF	SENTRICLAD STONE GRAY
SIDING	SHERWIN-WILLIAMS DOVETAIL
TRIM	SHERWIN-WILLIAMS ACIER
EXTERIOR TO BE CLEANED AND PREPPED PRIOR TO PAINTING. SEE SPEC SECTION 0900.	
ALUMINUM FLASHING TO BE CLEANED, SCRAPPED, ABRASDED & PRIMED PRIOR TO PAINTING	

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2 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



1 NORTH ELEVATION
SCALE: 3/16" = 1'-0"

WBS: 15RE.12.1.3

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a
DRAWING TITLE
ELEVATIONS

SHEET 8 OF 11

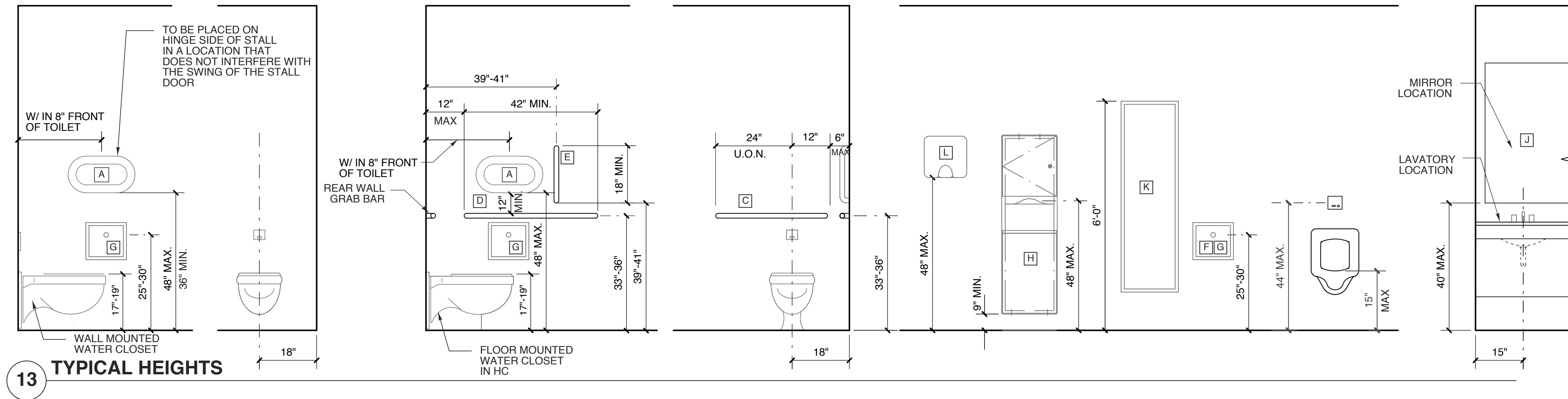
A2.2

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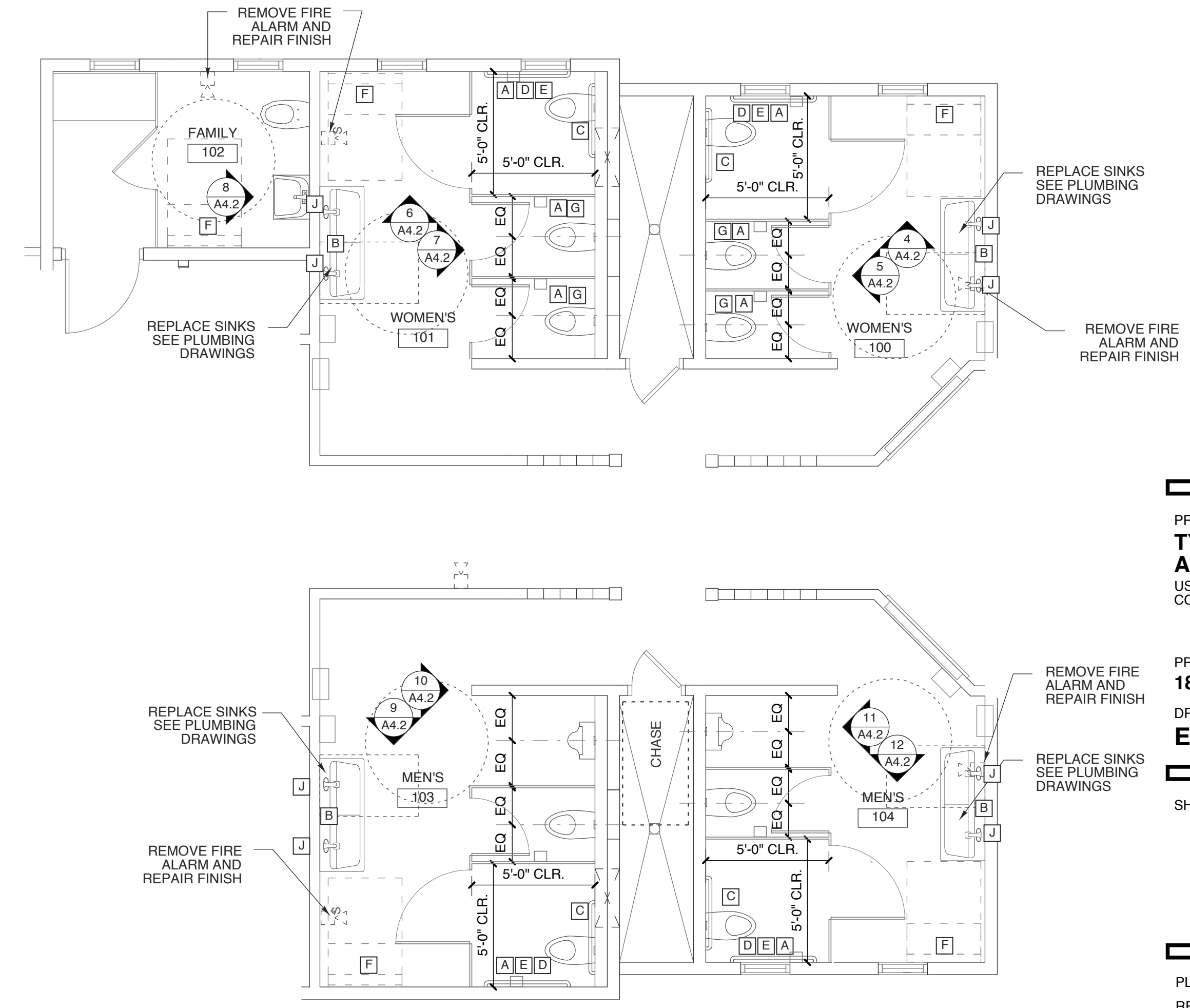
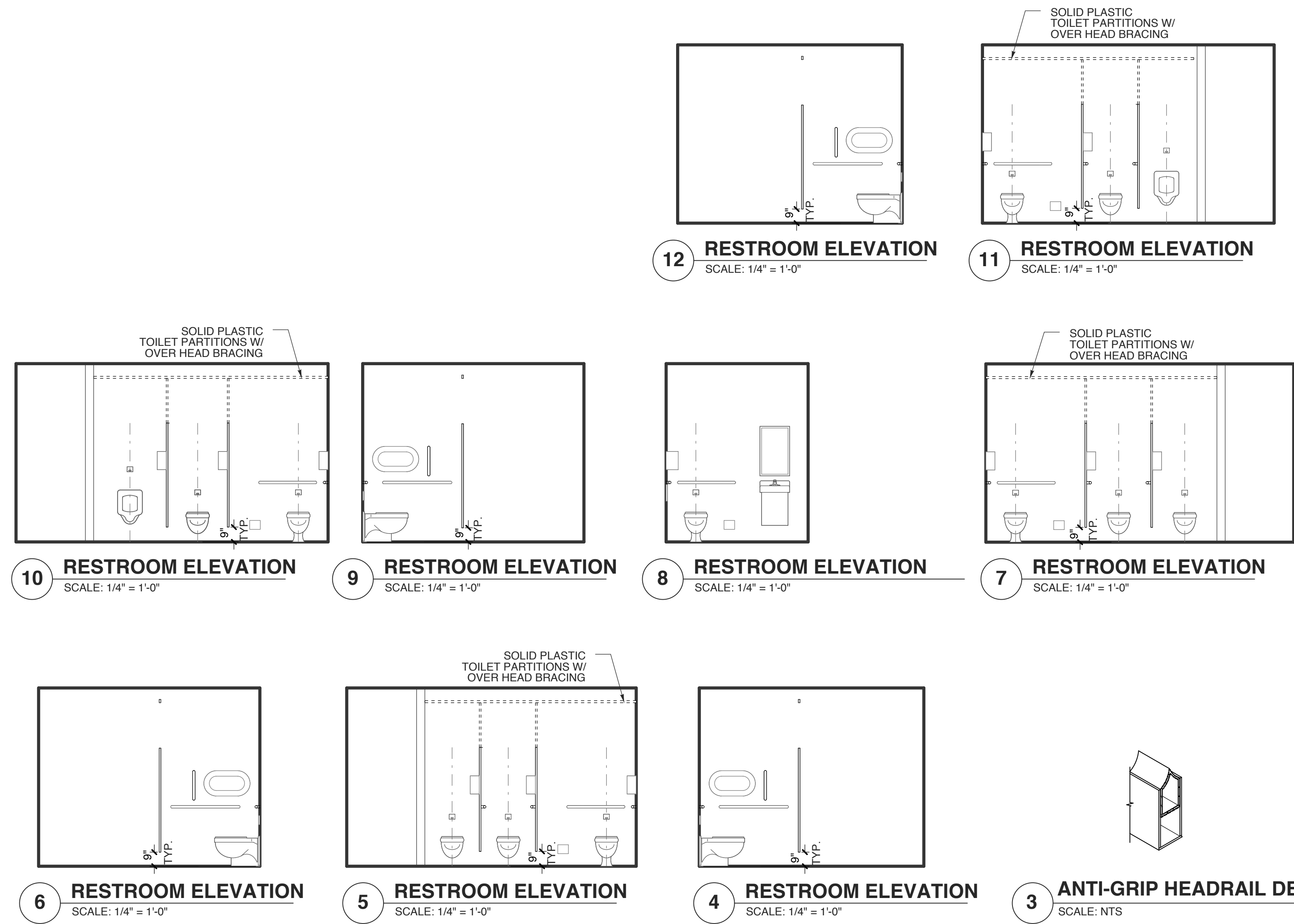


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E6028345662C422...
2/27/2019



TOILET ACCESSORY SCHEDULE					
MARK	ITEM	MOUNT	MARK	ITEM	MOUNT
A	SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER (B-4288)	36" MIN. 48" MAX. A.F.S.	F	HORZ. STAINLESS STEEL BABY CHANGING STATION- WALL MTD. (KOALA KARE KB110-SSWM)	25 1/2" A.F.S.
B	AUTOMATIC HANDS FREE LIQUID SOAP DISPENSER (AJW U135 EA)	42" MAX. A.F.S.	G	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL (B-4354)	25"-30" A.F.S.
C	36" HORIZONTAL GRAB BAR (B-6806.99 X 36)	33"-36"	H	not used	RE: ELEV.
D	42" HORIZONTAL GRAB BAR (B-6806.99 X 42)	33"-36" A.F.S.	J	WELDED FRAME MIRROR (B-2908-1830)	RE: ELEV.
E	18" VERTICAL GRAB BAR (B-6806.99 X 18)	RE: ELEV.	K	not used	RE: ELEV.

MANUFACTURER: BOBRICK WASHROOM EQUIPMENT U.N.O. OR APPROVED EQUAL-SEE SPECIFICATION
FINISH: SATIN STAINLESS STEEL
NOTE: GC TO INSTALL BLOCKING FOR ALL TOILET ACCESSORIES AND TOILET PARTITIONS AS REQ'D



WBS: 15RE.12.1.3

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a
DRAWING TITLE
ENLG. FLOOR PLAN

SHEET 9 OF 11

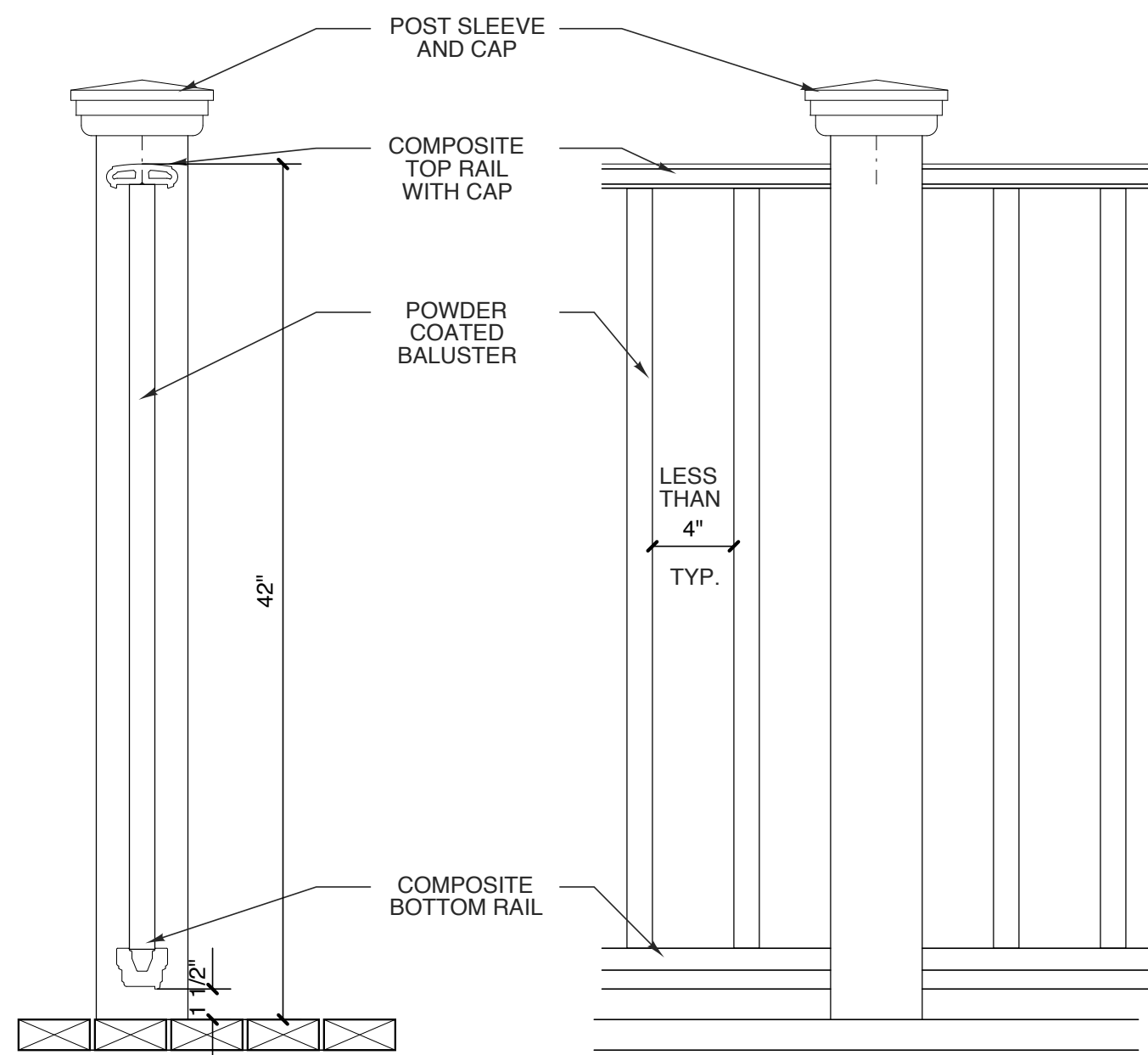
A3

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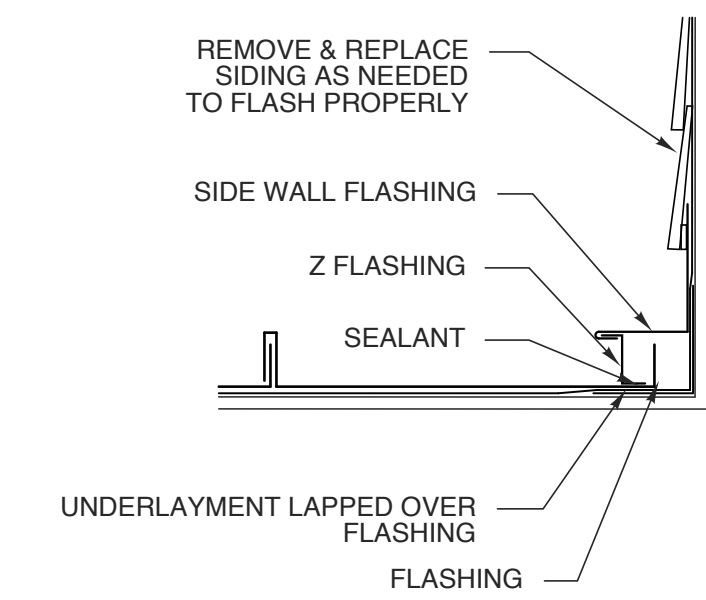


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2/27/2019



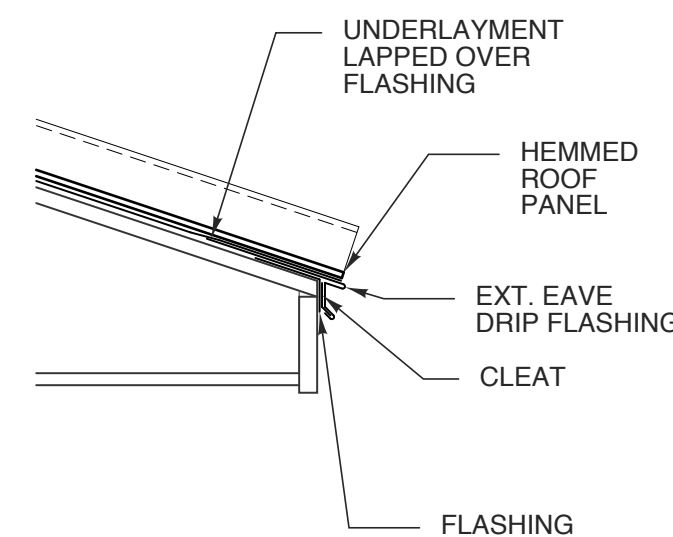
12 GUARDRAIL-SECT.
SCALE: 1 1/2" = 1'-0"

11 GUARDRAIL-ELEV.
SCALE: 1 1/2" = 1'-0"



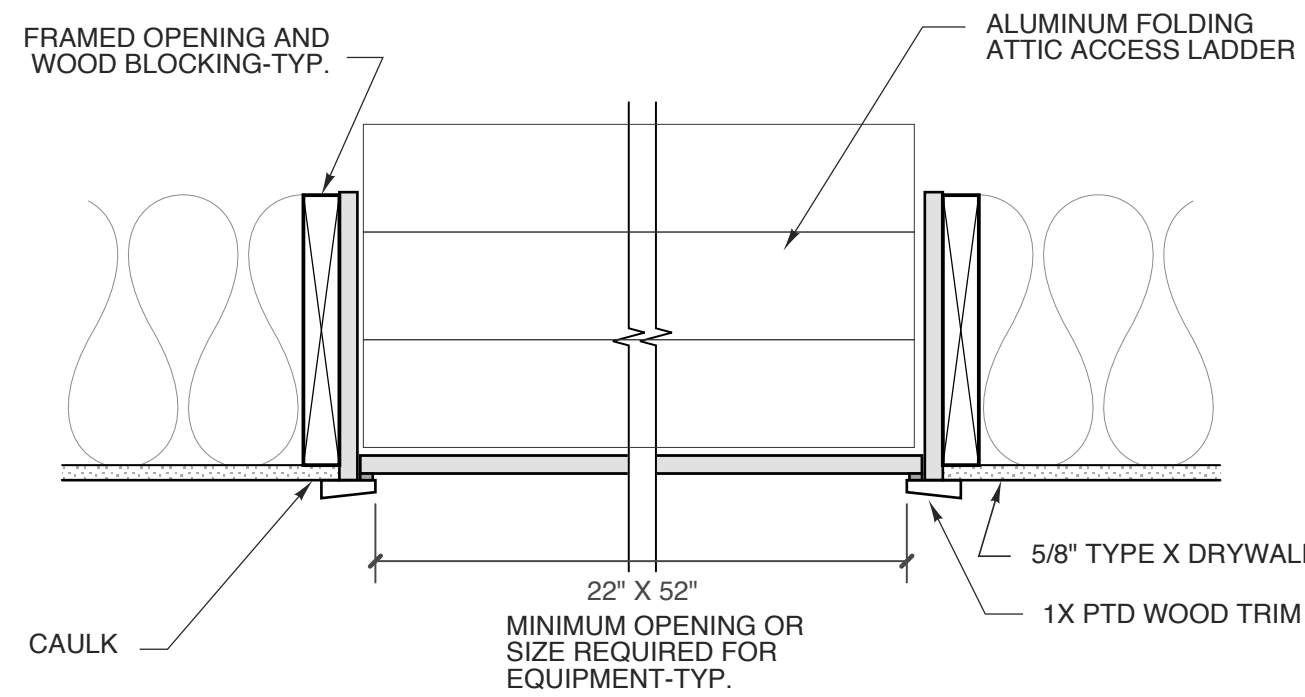
ALL ELEMENTS TO BE INSTALLED PER MANF. REQ.

7 SIDE WALL FLASHING
SCALE: 1 1/2" = 1'-0"

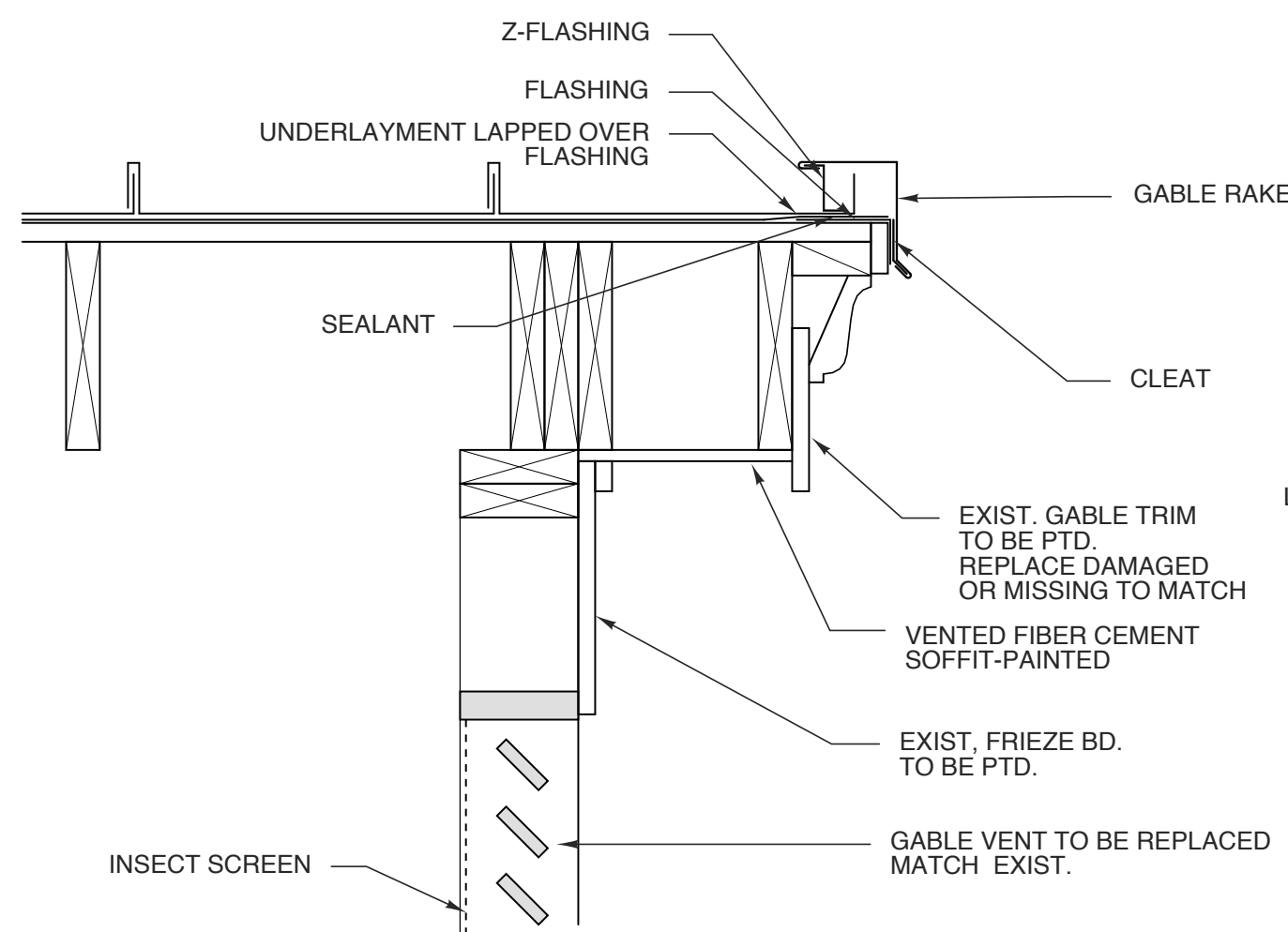


ALL ELEMENTS TO BE INSTALLED PER MANF. REQ.

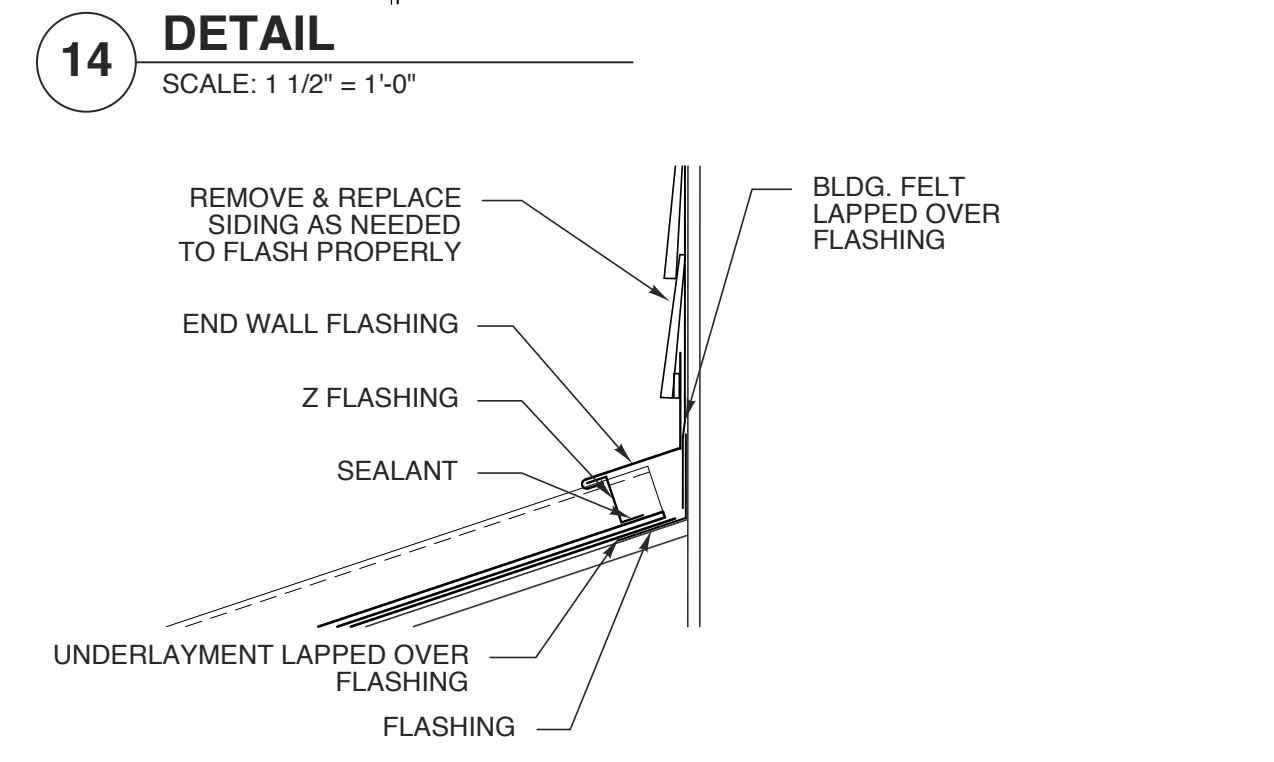
6 DRIP EAVE DETAIL
SCALE: 1 1/2" = 1'-0"



3 ACCESS DOOR DETAIL
SCALE: 1 1/2" = 1'-0"

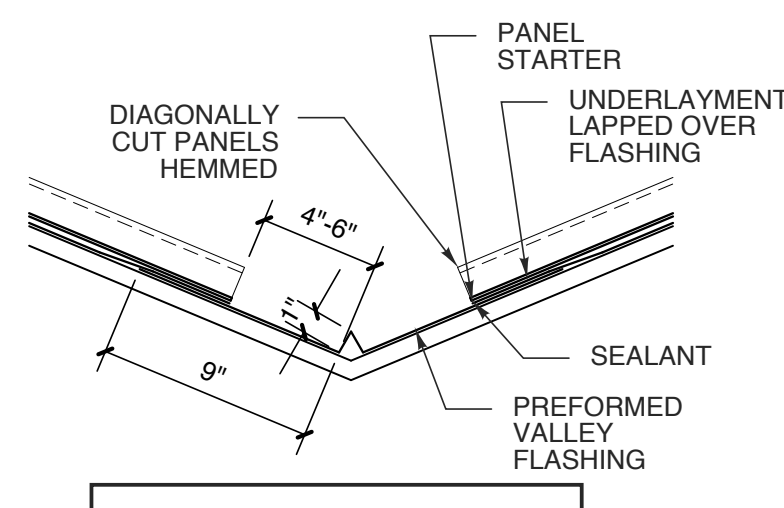


13 TRANSITION FLASHING
SCALE: 1 1/2" = 1'-0"



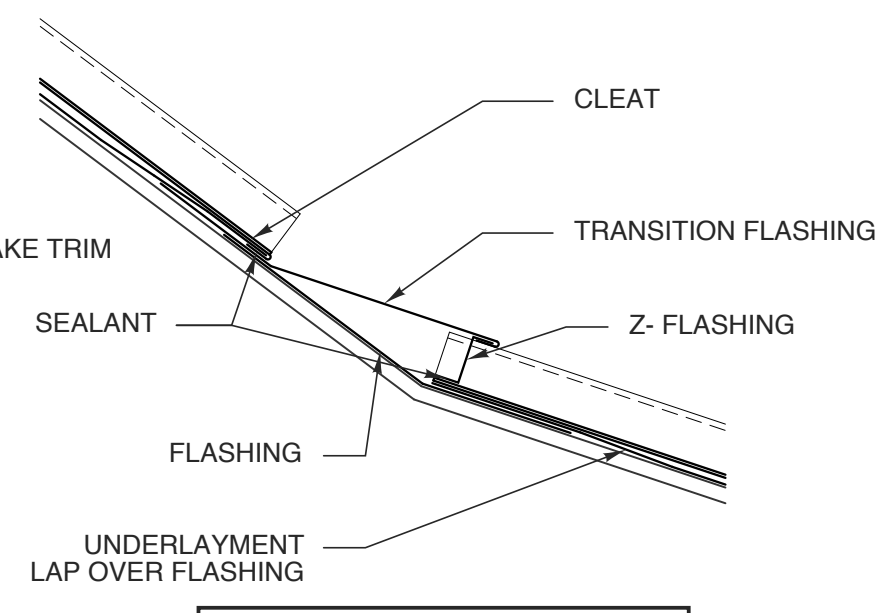
ALL ELEMENTS TO BE INSTALLED PER MANF. REQ.

10 END WALL FLASHING
SCALE: 1 1/2" = 1'-0"

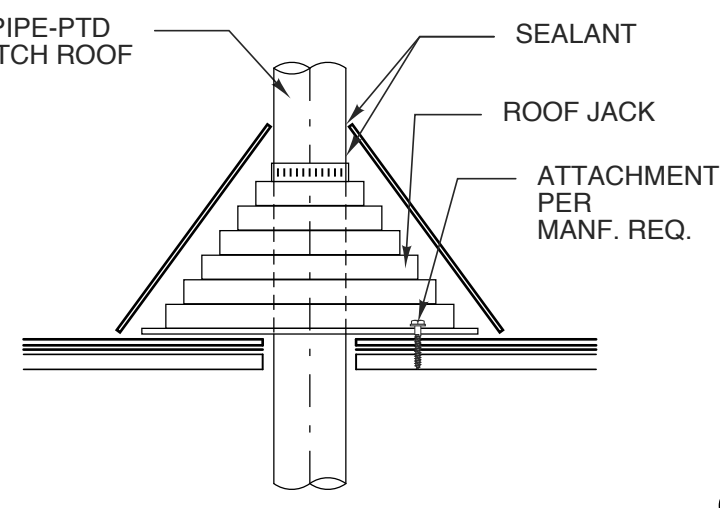


ALL ELEMENTS TO BE INSTALLED PER MANF. REQ.

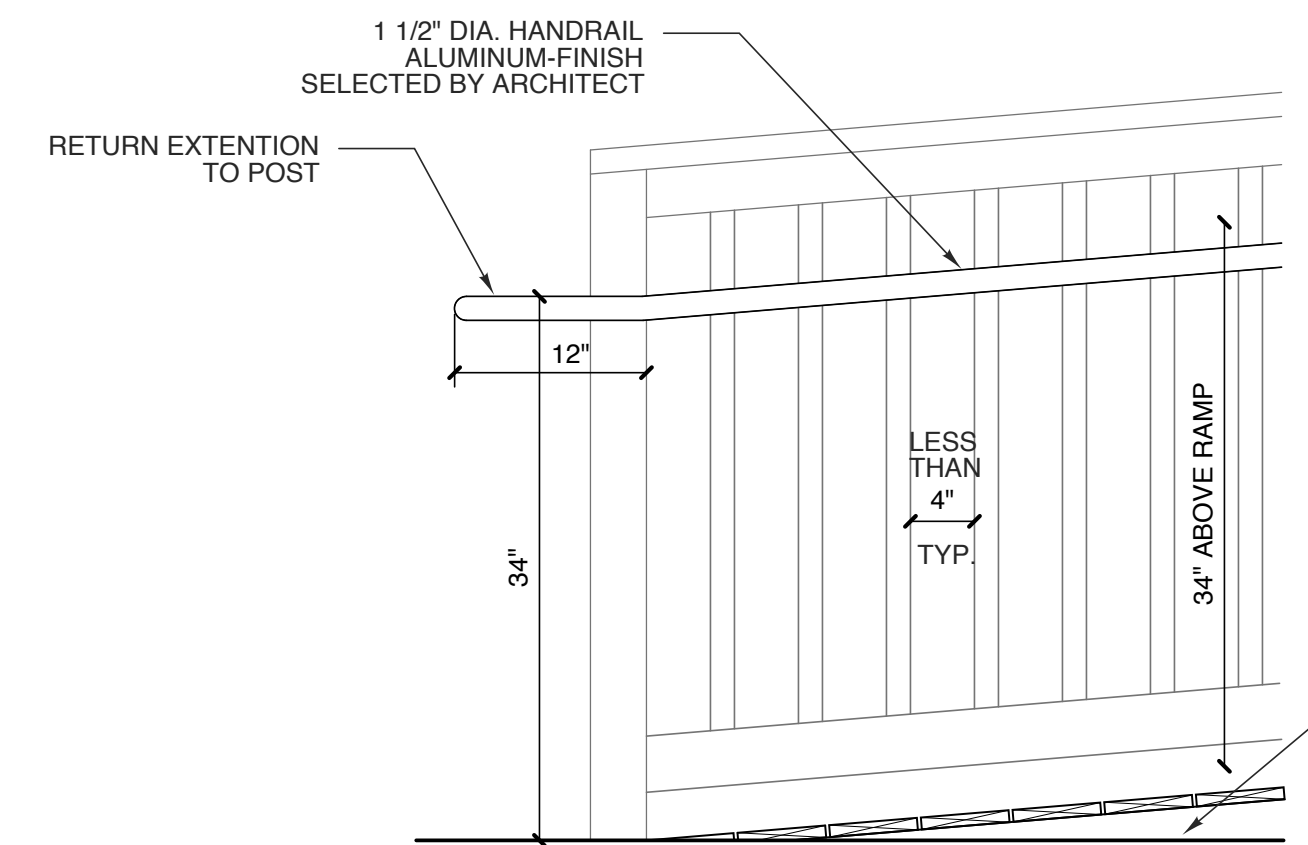
5 VALLEY DETAIL
SCALE: 1 1/2" = 1'-0"



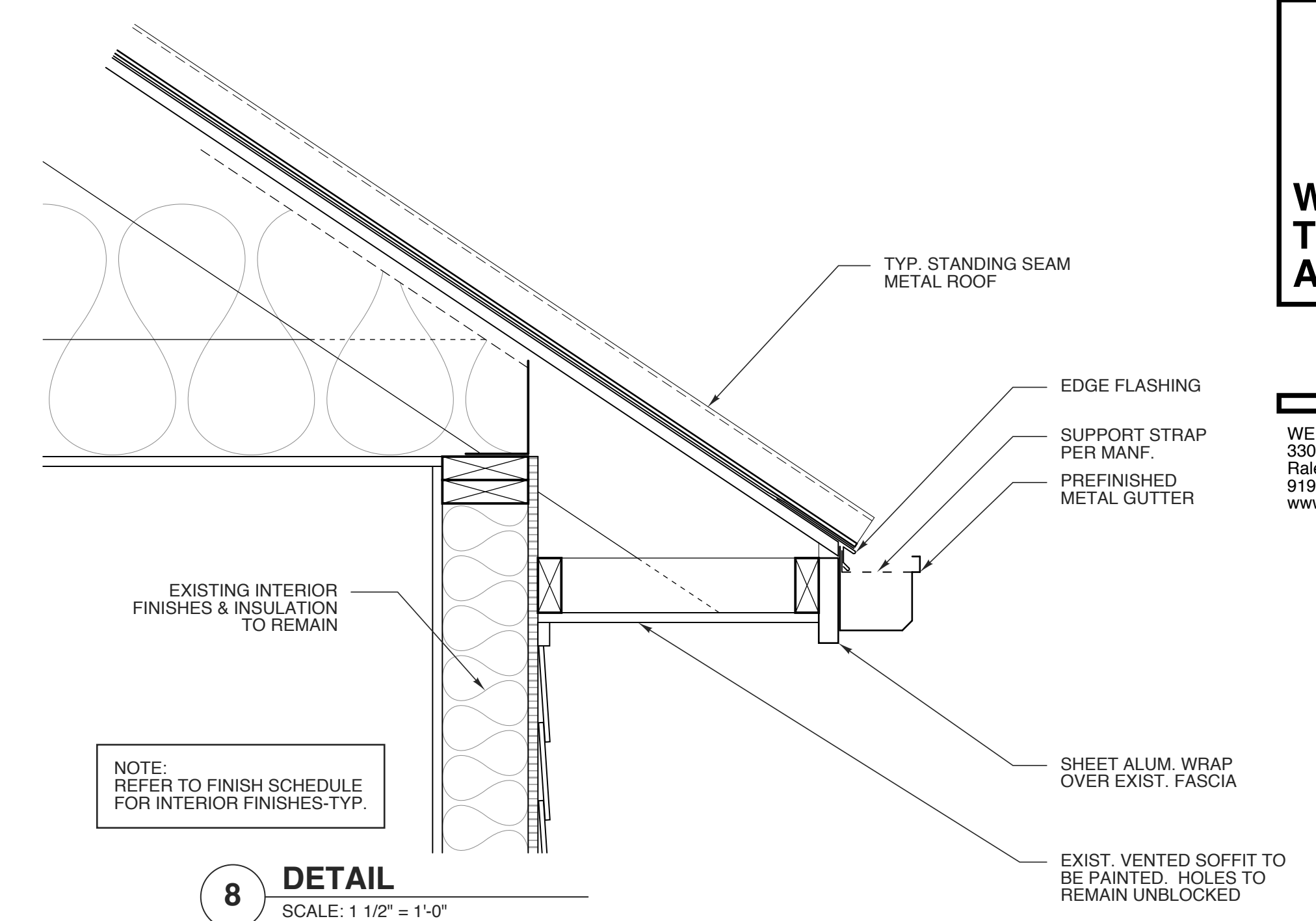
9 RIDGE VENT
SCALE: 1 1/2" = 1'-0"



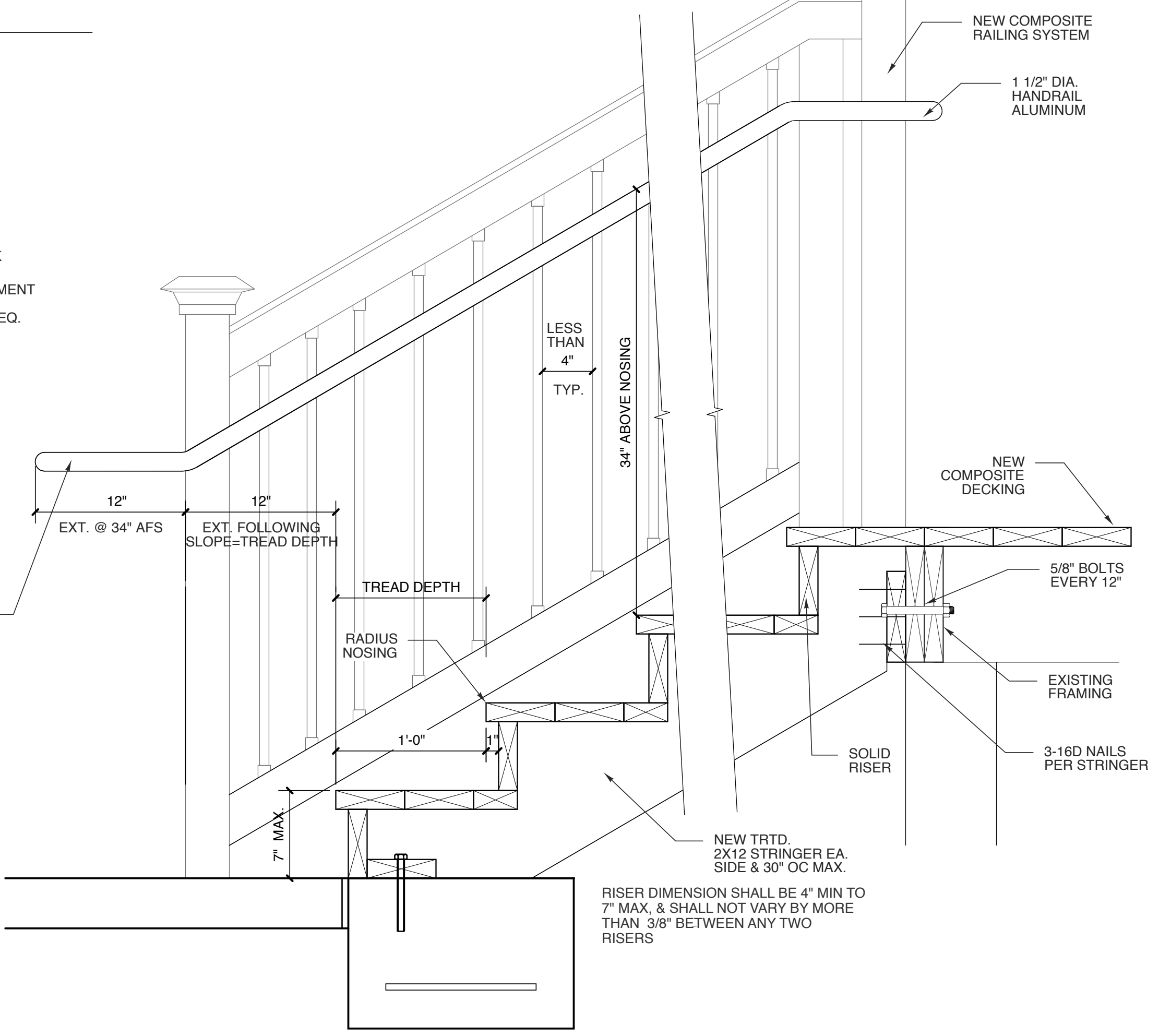
4 VENT DETAIL
SCALE: 1 1/2" = 1'-0"



2 HANDRAIL DETAIL @ RAMP
SCALE: 1" = 1'-0"



8 DETAIL
SCALE: 1 1/2" = 1'-0"



1 STAIR PROFILE DETAIL
SCALE: 1 1/2" = 1'-0"

WBS: 15RE.12.1.3

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a
DRAWING TITLE
DETAILS

SHEET 10 OF 11

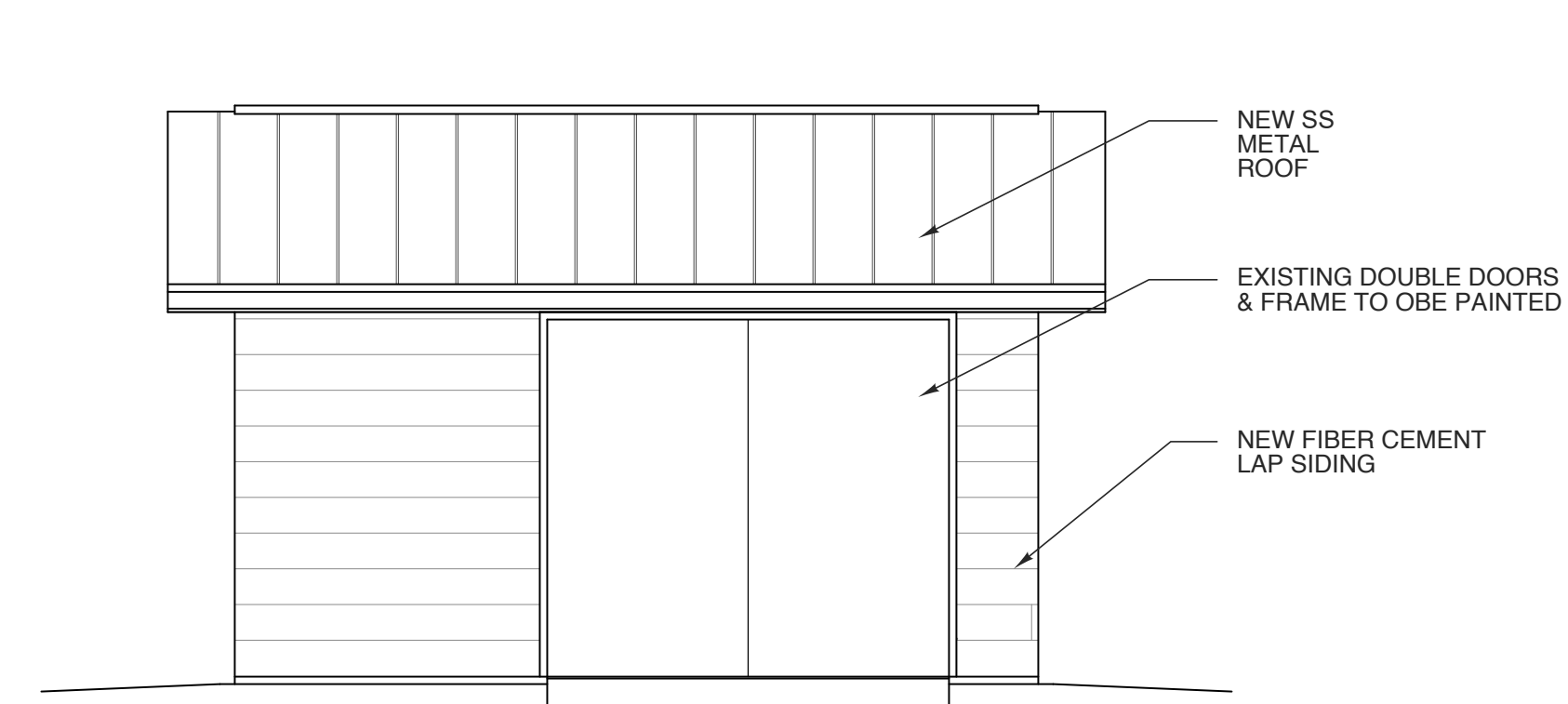
A4

PLOT DATE 2/25/19
REVISION 00/00/08

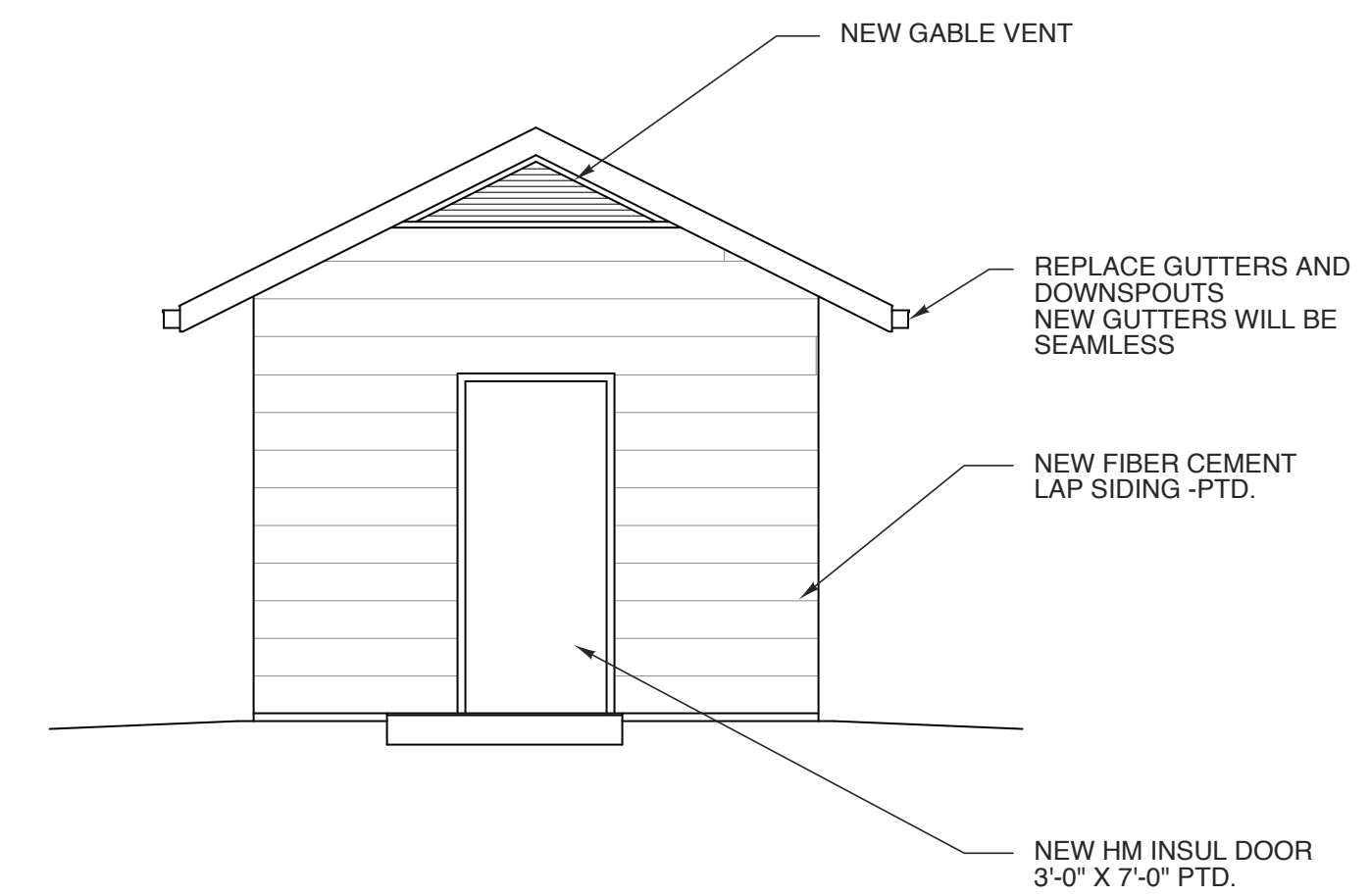
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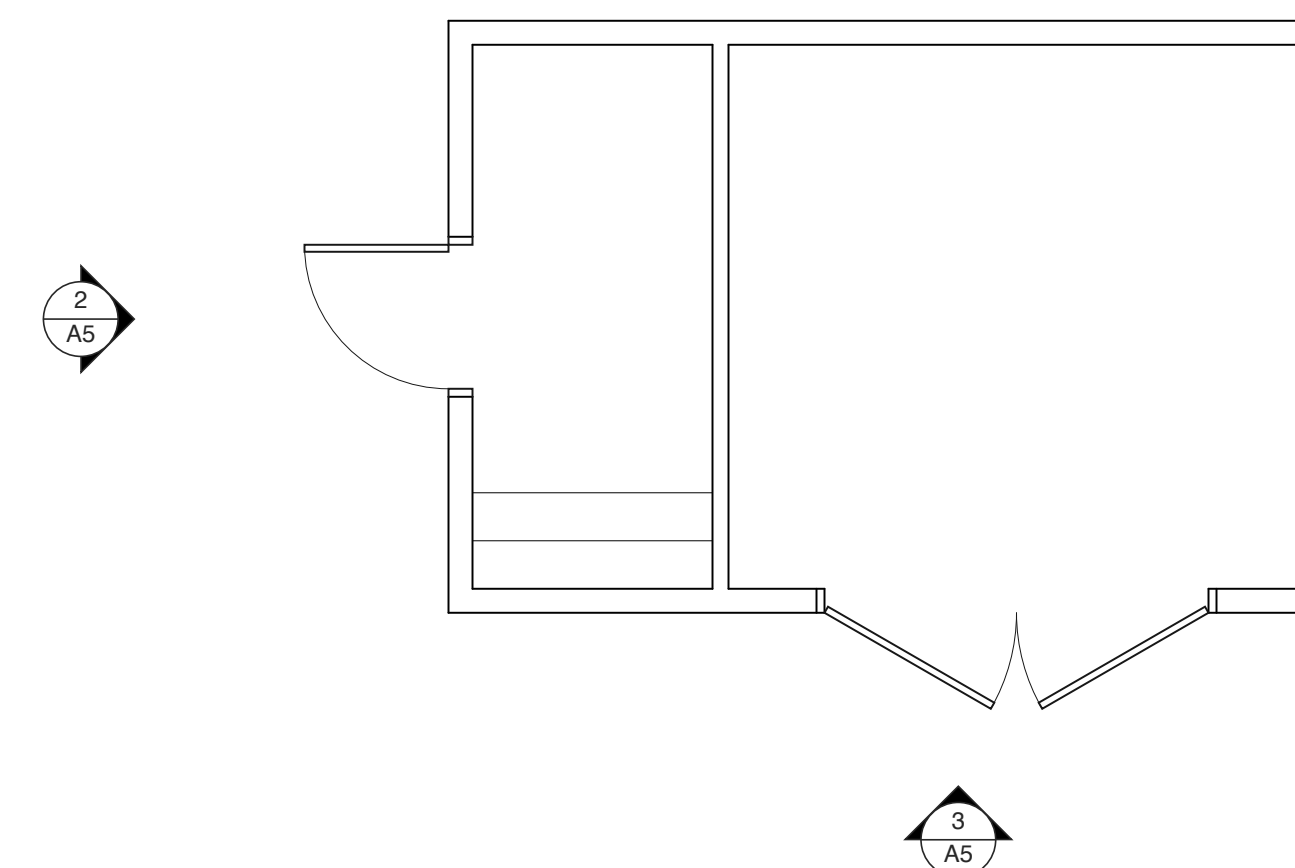
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Ginger S. Anderson
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2/27/2019



3 ELEVATION
SCALE: 1/4" = 1'-0"



2 ELEVATION
SCALE: 1/4" = 1'-0"



1 FLOOR PLAN
SCALE: 1/4" = 1'-0"

WBS: 15RE.12.1.3

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a

DRAWING TITLE
STORAGE SHED

SHEET 11 OF 11

A5

PLOT DATE 2/25/19
REVISION 00/00/08

WEEKS TURNER ARCHITECTURE

DIVISION 15A – PLUMBING

1.1 DESCRIPTION OF THE WORK

- A. Work under this section includes, but is not necessarily limited to, furnishing, installing, and/or demo of the following:
1. Plumbing fixtures, water heaters, and any other equipment necessary.
 2. Cold and hot water piping and insulation.
 3. DWV piping.
 4. Connection of all equipment; drain, vent, water.
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply.
1. The National Electrical Code.
 2. 2018 N.C. Building Code: Plumbing, and all applicable category codes.
 3. American Society of Sanitary Engineering Standard 1010.
 4. All local codes and ordinances.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.
- D. The Plumbing Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.
- E. Obtain all permits, licenses, inspections, etc., required for the work, and pay for the same.

1.2 INTENT

- A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.
- C. Coordinate all exterior piping connections w/Architect, site contractor/plans. Verify manhole elevations and provide backwater valves as required if flood level rims are below next upstream manhole cover elevation. Fixtures with flood level rims above upstream manhole shall not discharge thru bw valve. Notify engineer of backwater valve requirement, any issue prior to bid.

1.4 SHOP DRAWINGS

- A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 – PRODUCTS

2.1 FIXTURES

- A. Each fixture shall be properly supported from the building structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes supplying the fixtures must also be held rigidly in place.
- B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.
- C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.
- D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines, refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures.
- E. Provide trap primers for all floor drains in areas not served by hose bibbs.

2.2 PIPING

- A. Drain waste: All waste piping shall be Schedule 40 PVC-DWV with the following exceptions: Use cast iron piping in all return air plenums and penetrations of rated walls/floors/ceilings. Review Arch. and Mech. drawings. Use ABS or cast iron piping for drainage of fluid temperature greater than 140 deg. F for a minimum distance of 10'-0".
- B. Hot and cold water piping above grade: Type "L" copper w/solder joints (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22) PEX piping with copper fittings may be used with owner/tenant approval, and as allowed per code.
- C. Cold water piping below grade: Type "K" copper (ASTM-88A) soft drawn.
- D. Hangers: Use pipe hangers where required on 8-foot centers with saddles to avoid crushing insulation.
- E. Solder: 95/5. Lead free.
- F. Unions: Provide unions where indicated on drawings, in long runs of piping (except drainage) and at equipment to provide convenient disassembly. Provide dielectric unions when connecting copper tubing to equipment and piping made of ferrous materials.

2.3 CLEANOUTS

- A. Hex plugs in rough areas: Recessed plugs with cover plates in exposed locations.

2.4 SHOCK ARRESTERS

- A. Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for quality construction. Provide for all quick closing valves.

PART 3 – EXECUTION

3.1 CONNECTIONS

- A. This contract includes complete connection of cold water, hot water, drainage, and vent piping as required. All fittings, valves, accessories, cutoffs, drains, etc., required to complete such connections shall be included.
- B. The connection to water closets shall be made watertight with gasket and wax ring. Floor flanges shall be couled into position. Plastic caps shall be provided on the tie down bolts, and shall be secured in place by screwing down on threaded brass washers.
- C. Where water pipes connect to exposed chrome plated trim, use proper chrome plated escutcheons.

3.2 SERVICE ACCESS

- A. All valves and accessories shall be insulated so that they can be properly serviced. In no case shall the Plumbing Contractor install equipment or other components in situations that do not meet code requirements or manufacturer's requirements. Provide access doors as required to access valves, etc.

3.3 ROUTING OF PIPING

- A. Coordinate routing of piping with others, line up work true to or at right angle to adjacent surfaces and in a workmanlike manner. Support all interior piping from building structure by means of hanger or inserts to maintain pitch of lines, to prevent vibration, and to secure piping place.

- B. Space pipe hangers 8'-0" on center for one inch and smaller pipe, 4'-0" on center for 1-1/4 inch and larger pipe. Provide expansion loops as required.

- C. Pipe hangers for insulated lines shall have suitable saddles to protect insulation.

3.4 INSULATION

- A. All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R-6.5 min.) in unconditioned areas. See NCSBC-Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insulation per Sect. C404.4 of the NCSBC 2018 Energy Conservation Code.
- B. Provide pre-fabricated insulation kits for all sink and lavatory exposed drain and supply piping.

3.5 INSPECTIONS AND TESTS

- A. Before being concealed, all water, soil and vent piping shall be tested to determine if they are water- and air-tight.
- B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.

3.6 STERILIZATION OF PIPING

- A. Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution, introduced into the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.

3.7 SERVICE PRESSURE

- A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSBC-Plumbing Sect. 604.8.

3.8 DRAINDOWN

- A. Contractor to provide for complete plumbing system drain down.

3.9 CLEAN UP

- A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.

3.10 GUARANTEES

- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
- B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner. This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.

PLUMBING FIXTURE SCHEDULE *

MARK	DESCRIPTION	ALTERNATE MANUFACTURER/MODEL	ALTERNATE MANUFACTURER/MODEL
LS	BRADLEY MODEL ELX-2 STATION WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCET.	2- STATION LAVATORY (ACCESSIBLE) WITH FAUCETS SLOAN TWO STATION LAVATORY #ELRF-82000. ADA COMPLIANT. PROVIDE DRAIN W/GRID STRAINER, VERIFY COLOR WITH ARCHITECT. FURNISH WITH SLOAN EAF-275 SOLAR POWERED FAUCETS. CONNECT TO EXISTING DWV, HOT/COLD WATER LINES AS REQUIRED. VERIFY HOT WATER FROM LS FAUCET AT 110 DEG. F (MAX.). PROVIDE MIXING VALVE OPTION IF REQUIRED.	WILLOUGHBY MODEL WAW-232-DMF WITH TOTO TEL3GS10 SOLAR SENSOR FAUCETS.

*OR APPROVED EQUAL

GENERAL NOTES – PLUMBING

1. PREPLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING.
2. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.
3. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES.
4. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING PLUMBING FIXTURES, MATERIALS, AND DEVICES.
5. LOCATE FIXTURES AND EQUIPMENT GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE-REQUIRED AND MANUFACTURER – REQUESTED SERVICE CLEARANCES.
6. COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES. OFFSET VENT PIPING AROUND BEAMS AND JOISTS AS NECESSARY.
7. ALL HANDICAP FIXTURES AND INSTALLATION OF HANDICAP FIXTURES SHALL CONFORM TO ADA REQUIREMENTS.
8. AT EXTERIOR WALL, INSTALL WATER PIPING ON HEATED SIDE OF WALL INSULATION.
9. PROVIDE WATER HAMMER ARRESTORS AT THE END OF EACH COLD AND HOT WATER BRANCH RISER. SIZE ARRESTOR APPROPRIATELY.
10. PROVIDE CONCRETE RING FOR ALL EXTERIOR CLEAN-OUTS.
11. REVIEW SITE PLAN FOR UTILITIES AND ORIENTATION PRIOR TO START OF WORK.
12. G.C. TO PROVIDE ROOF PENETRATIONS.

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Ben Burke
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2/27/2019

PROJECT TITLE

TYRRELL CTY. REST
AREA & VISITOR'S CTR.
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.

1804a

DRAWING TITLE

PLUMBING SPECIFICATIONS

P1

PLOT DATE

2/22/19

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NOTE:
ALL EXISTING PLUMBING FIXTURES, LINES, SPRINKLER HEADS, ETC., TO BE REMOVED MAY NOT BE SHOWN. COORDINATE WITH FIELD CONDITIONS, VERIFY ALL ITEMS TO BE REMOVED WITH OWNER.

NOTE:
VERIFY REQUIREMENTS OF NEW LAVATORY STATIONS (LS). DWV MAY VARY PER MODEL.

NOTE:
THE GC SHALL REPAIR/REPLACE FINAL FINISHES AS REQUIRED DUE TO DEMO AND/OR NEW WORK.

NOTE:
MAINTAIN OR REPLACE DWV/WATER PIPING IF/AS REQUIRED DUE TO DEMO/NEW ROOF, ETC., WORK. COORDINATE W/G.C.

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM FIELD INVESTIGATION AND PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

THE SCOPE OF DEMOLITION IS AS FOLLOWS—
REPLACE OR REMOVE EXISTING FIXTURES, PIPING, ETC., AS SHOWN/NOTED. PROVIDE CLEANOUTS ON UNUSED DRAIN LINES AT FINAL FINISHES TO PREVENT DEAD-ENDS PER CODE. REMOVE UNUSED VENT LINES TO ABOVE CEILING AND CAP AT MAIN. REMOVE ALL UNUSED CW & HW LINES/STUB-OUTS, ETC., AND CAP LINES BEHIND FINAL FINISHES. REMOVE AND REPLACE ALL CONCRETE, WALLS AND CEILINGS AS REQUIRED TO LOCATE EXISTING OR INSTALL NEW LINES, OR AS NEEDED DUE TO DEMO. PROVIDE NEW PIPING AS NEEDED.

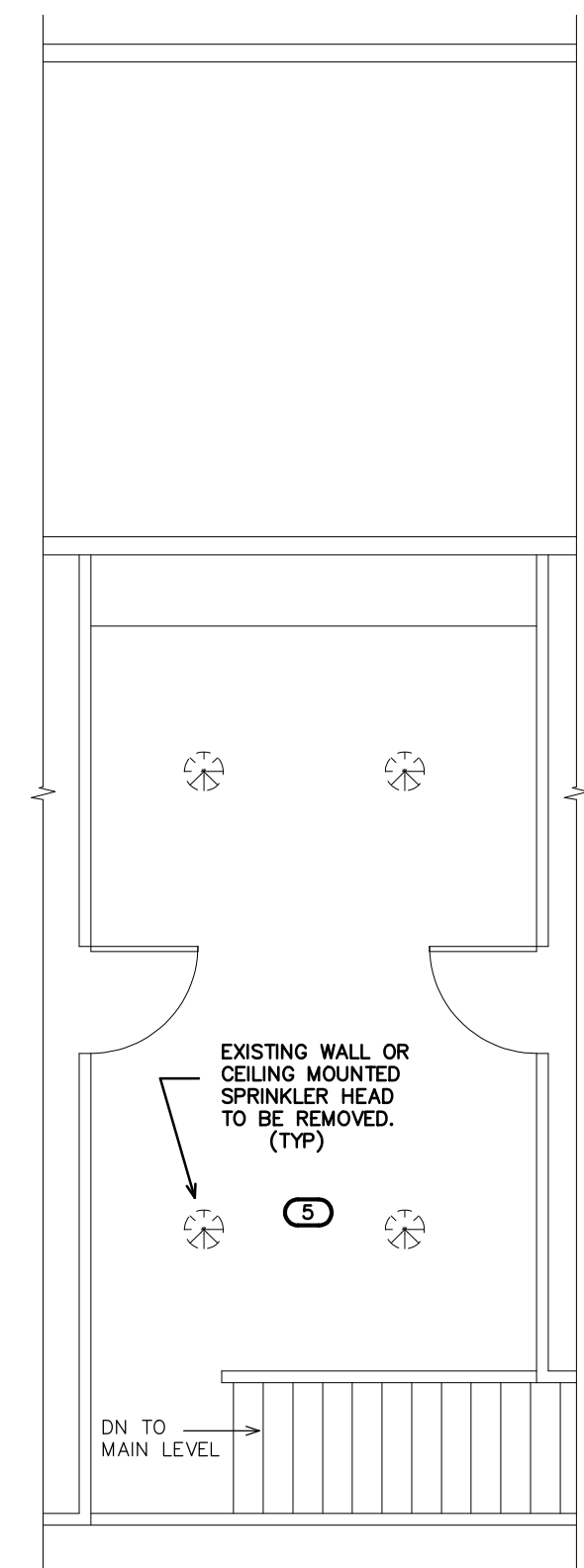
THE PLUMBING CONTRACTOR SHALL TRACE ALL EXISTING DRAIN LINES PRIOR TO THE START OF WORK UTILIZING DYE AND/OR CAMERAS IF NECESSARY. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW. VERIFY LOCATION/INVERT REQUIREMENTS OF EXISTING DRAIN LINES PRIOR TO START OF WORK.

COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT BLDG./ EXISTING FIXTURES SERVED BY DWV/SUPPLY MAINS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

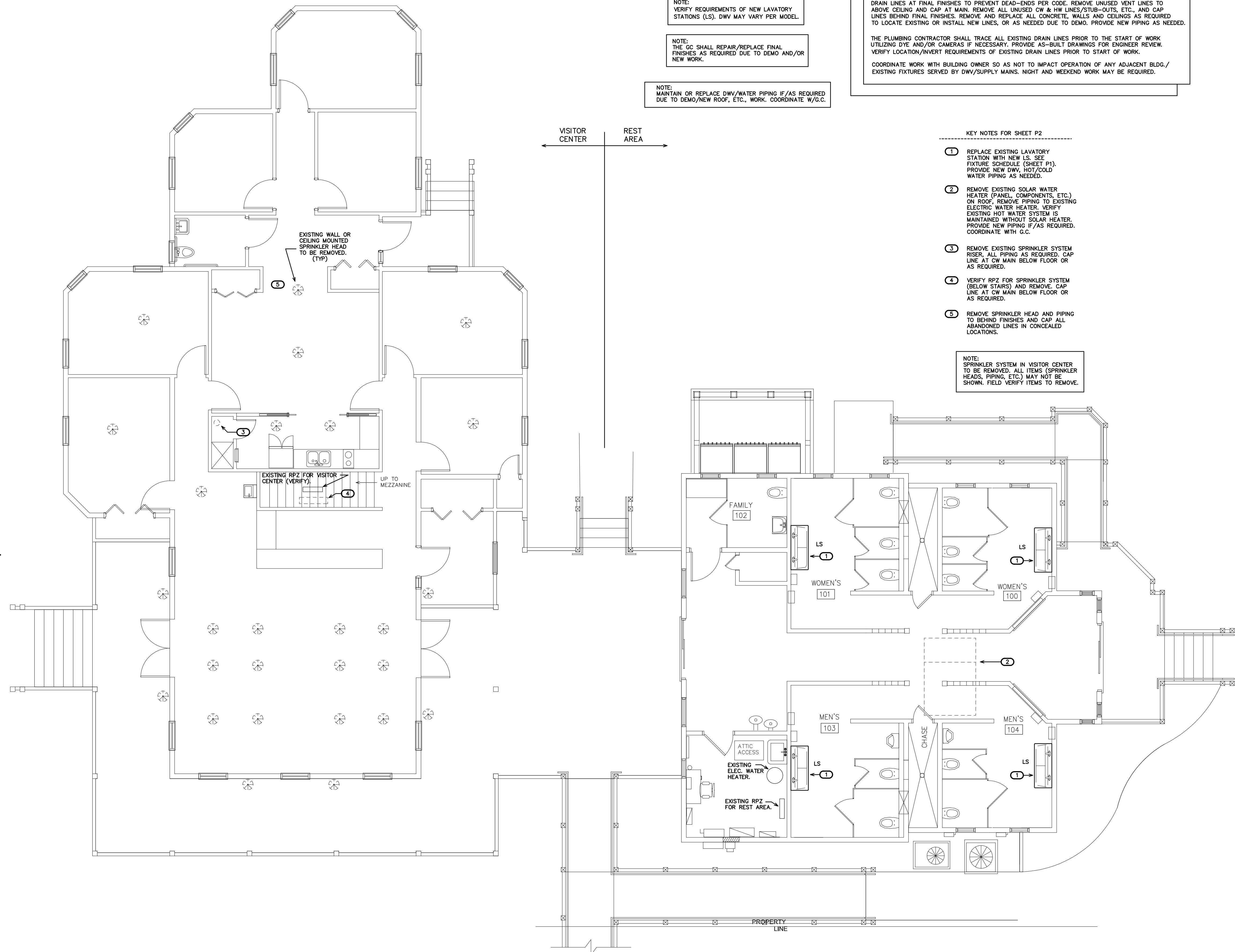
KEY NOTES FOR SHEET P2

- 1 REPLACE EXISTING LAVATORY STATION WITH NEW LS. SEE FIXTURE SCHEDULE (SHEET P1). PROVIDE NEW DWV, HOT/COLD WATER PIPING AS NEEDED.
- 2 REMOVE EXISTING SOLAR WATER HEATER (PANEL, COMPONENTS, ETC.) ON ROOF. REMOVE PIPING TO EXISTING ELECTRIC WATER HEATER. VERIFY EXISTING HOT WATER SYSTEM IS MAINTAINED WITHOUT SOLAR HEATER. PROVIDE NEW PIPING IF/AS REQUIRED. COORDINATE WITH G.C.
- 3 REMOVE EXISTING SPRINKLER SYSTEM RISER, ALL PIPING AS REQUIRED. CAP LINE AT CW MAIN BELOW FLOOR OR AS REQUIRED.
- 4 VERIFY RPZ FOR SPRINKLER SYSTEM (BELOW STAIRS) AND REMOVE. CAP LINE AT CW MAIN BELOW FLOOR OR AS REQUIRED.
- 5 REMOVE SPRINKLER HEAD AND PIPING TO BEHIND FINISHES AND CAP ALL ABANDONED LINES IN CONCEALED LOCATIONS.

NOTE:
SPRINKLER SYSTEM IN VISITOR CENTER TO BE REMOVED. ALL ITEMS (SPRINKLER HEADS, PIPING, ETC.) MAY NOT BE SHOWN. FIELD VERIFY ITEMS TO REMOVE.



2 MEZZANINE PLAN
SCALE: 3/16" = 1'-0"

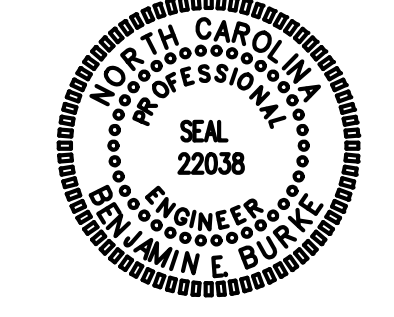


1 PLUMBING PLAN
SCALE: 3/16" = 1'-0"

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2/27/2019

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a

DRAWING TITLE
PLUMBING PLAN

P2




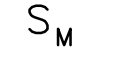
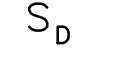
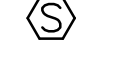


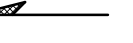
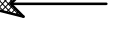
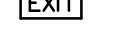

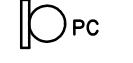
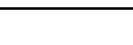

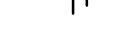


PLOT DATE 1/7/19

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




GENERAL NOTES

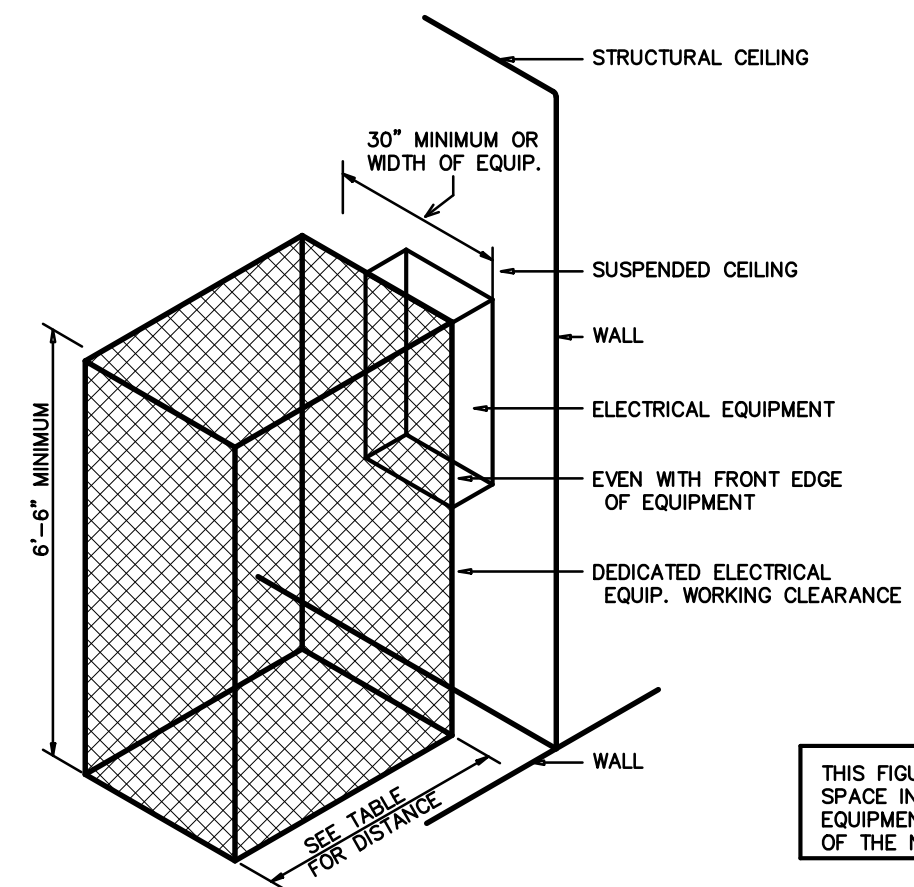
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTERS AND CONDUIT PER NEC.)
- ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.
- ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
- CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.
- THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.
- PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.

ELECTRICAL LEGEND

-  LIGHT FIXTURE: LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE). NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)
-  DUPLEX RECEPTACLE - 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; "WP" INDICATES WEATHER PROOF, "GFI" INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED.
-  LIGHT SWITCH
-  SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.
-  DIMMABLE LIGHT SWITCH
-  MOTOR RATED SWITCH
-  JUNCTION BOX
-  TELE/DATA OUTLET - PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK
-  SINGLE-POLE HOMERUN TO PANELBOARD
-  TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD
-  EXIT LIGHT
-  EMERGENCY EGRESS FIXTURE
-  PHOTOCELL
-  BRANCH CIRCUIT WIRING
-  SWITCH LEG
-  GROUND CONNECTION
-  DISTRIBUTION PANELBOARD
-  DISCONNECTING MEANS AS REQUIRED BY CODE

FIRE ALARM LEGEND

-  HORN/STROBE SIGNALING DEVICE (XX) CANDELLA RATING; (S) INDICATES STROBE-ONLY
-  PULL STATION
-  SMOKE DETECTOR
-  HEAT DETECTOR
-  FIRE ALARM CONTROL PANEL



ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110-26 OF N.E.C.

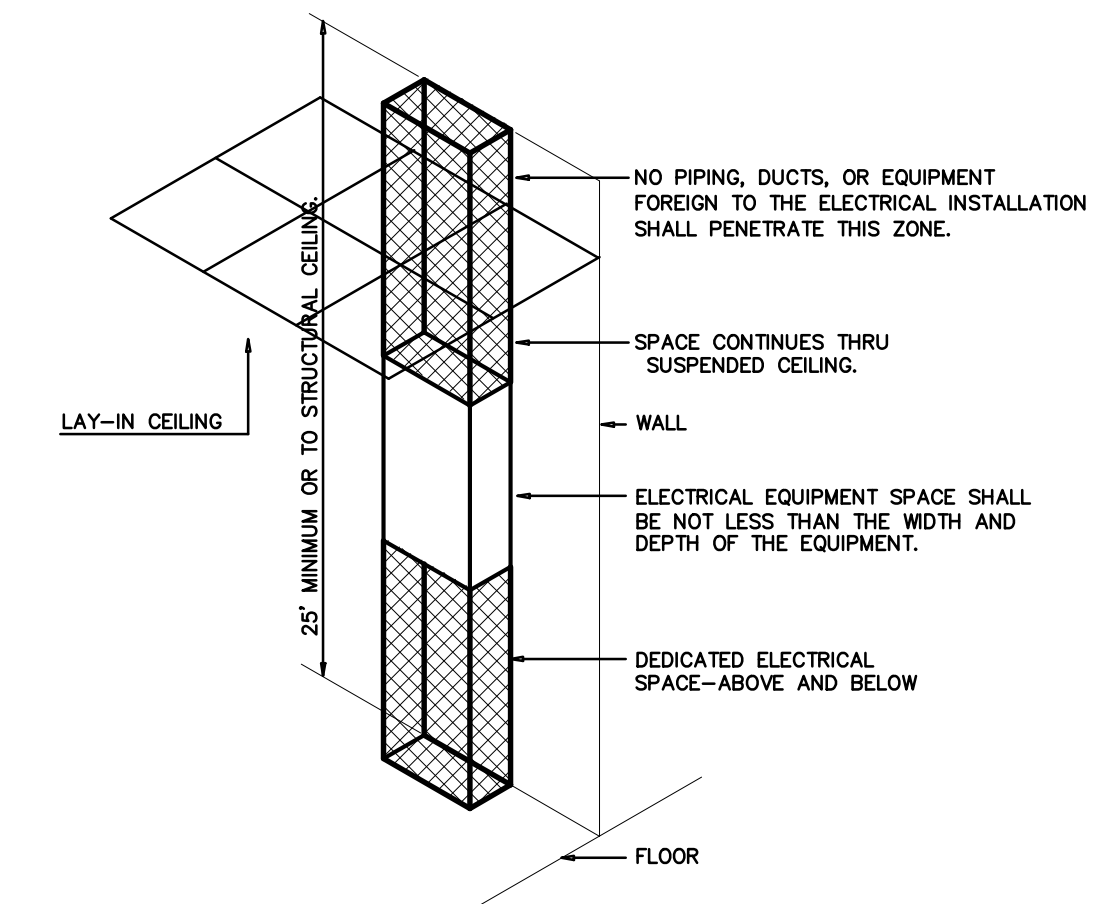
VOLTAGE TO GROUND NOMINAL	WORKING CLEARANCES		
	MIN. CLEAR DISTANCE IN FEET		
0-150	CONDITION: 1	2	3
151-600	3	3	3
	3	3-1/2	4

WHERE THE CONDITIONS ARE AS FOLLOWS:

- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

2 ELECTRICAL CLEARANCES

SCALE: NTS



ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.

1 DEDICATED SPACE

SCALE: NTS

THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-16 OF THE N.E.C.

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Ben Burke
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2/27/2019

PROJECT TITLE
TYRRELL CTY. REST
AREA & VISITOR'S CTR.
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804g

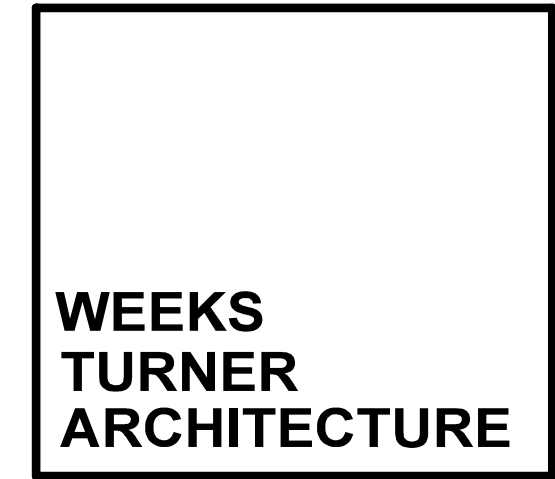
DRAWING TITLE
ELECTRICAL SPECIFICATIONS

1:1

PLOT DATE 2/22/19

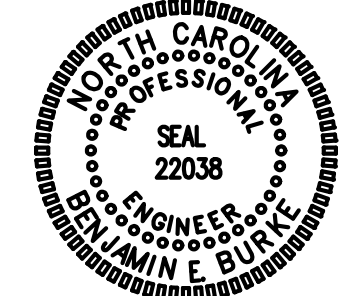
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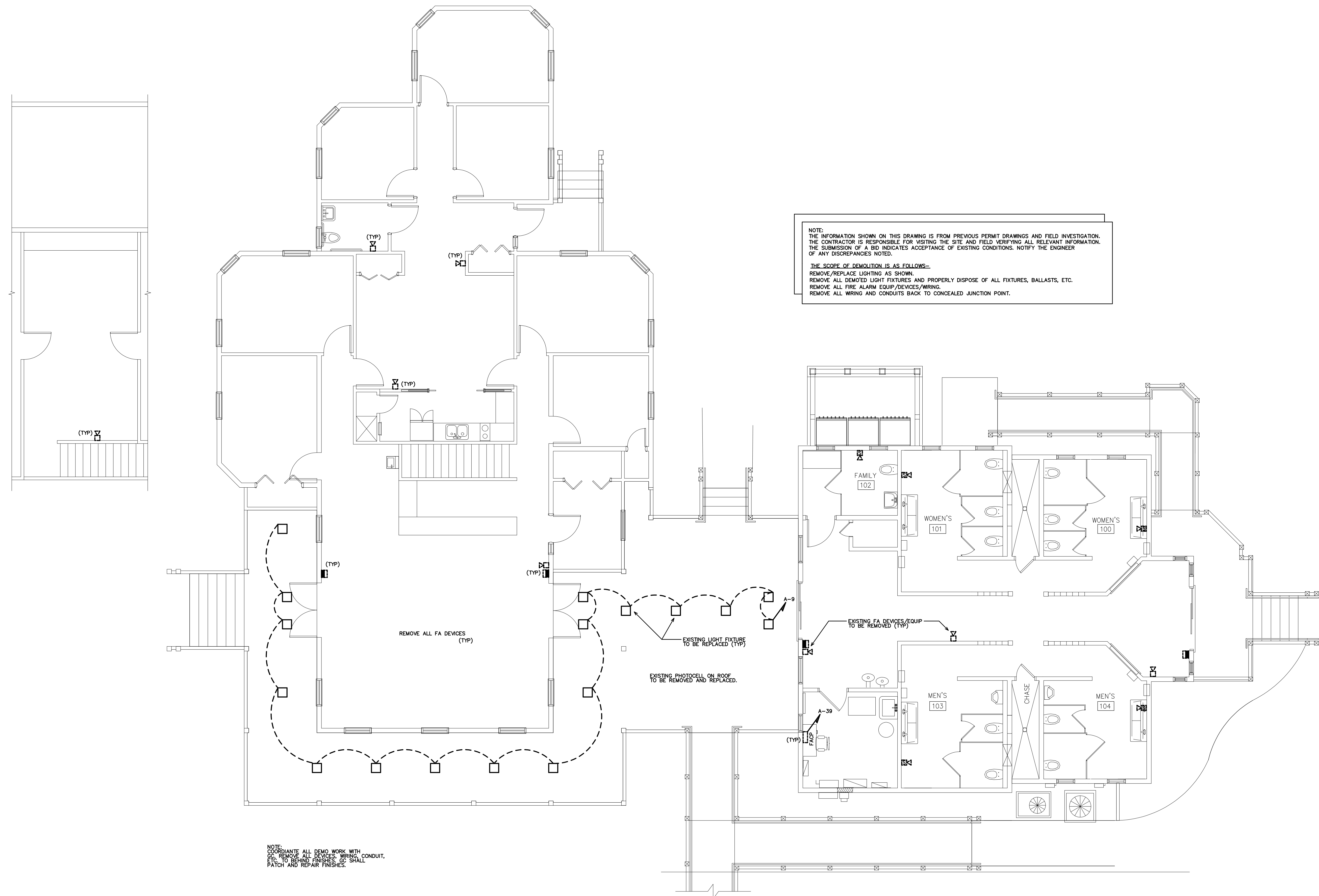
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NOTE:
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THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

THE SCOPE OF DEMOLITION IS AS FOLLOWS--
REMOVE/REPLACE LIGHTING AS SHOWN.
REMOVE ALL DEMO'D LIGHT FIXTURES AND PROPERLY DISPOSE OF ALL FIXTURES, BALLASTS, ETC.
REMOVE ALL FIRE ALARM EQUIP/DEVICES/WIRING.
REMOVE ALL WIRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.



NOTE:
COORDINATE ALL DEMO WORK WITH
GC. REMOVE ALL DEVICES, WIRING, CONDUIT,
ETC. TO BEHIND FINISHES. GC SHALL
PATCH AND REPAIR FINISHES.

PROJECT TITLE
TYRRELL CTY. REST
AREA & VISITOR'S CTR.
US 64
COLUMBIA, NORTH CAROLINA

PROJECT NO.
1804a

DRAWING TITLE
ELECTRICAL PLAN



PLOT DATE 2/22/19

1 EXISTING ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"

EXISTING DEVICE/FIXTURE TO BE REMOVED OR REPLACED

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Ben Burke
CS3161F800F3405
2/27/2019

PROJECT TITLE
**TYRRELL CTY. REST
AREA & VISITOR'S CTR.**
US 64
COLUMBIA, NORTH CAROLINA

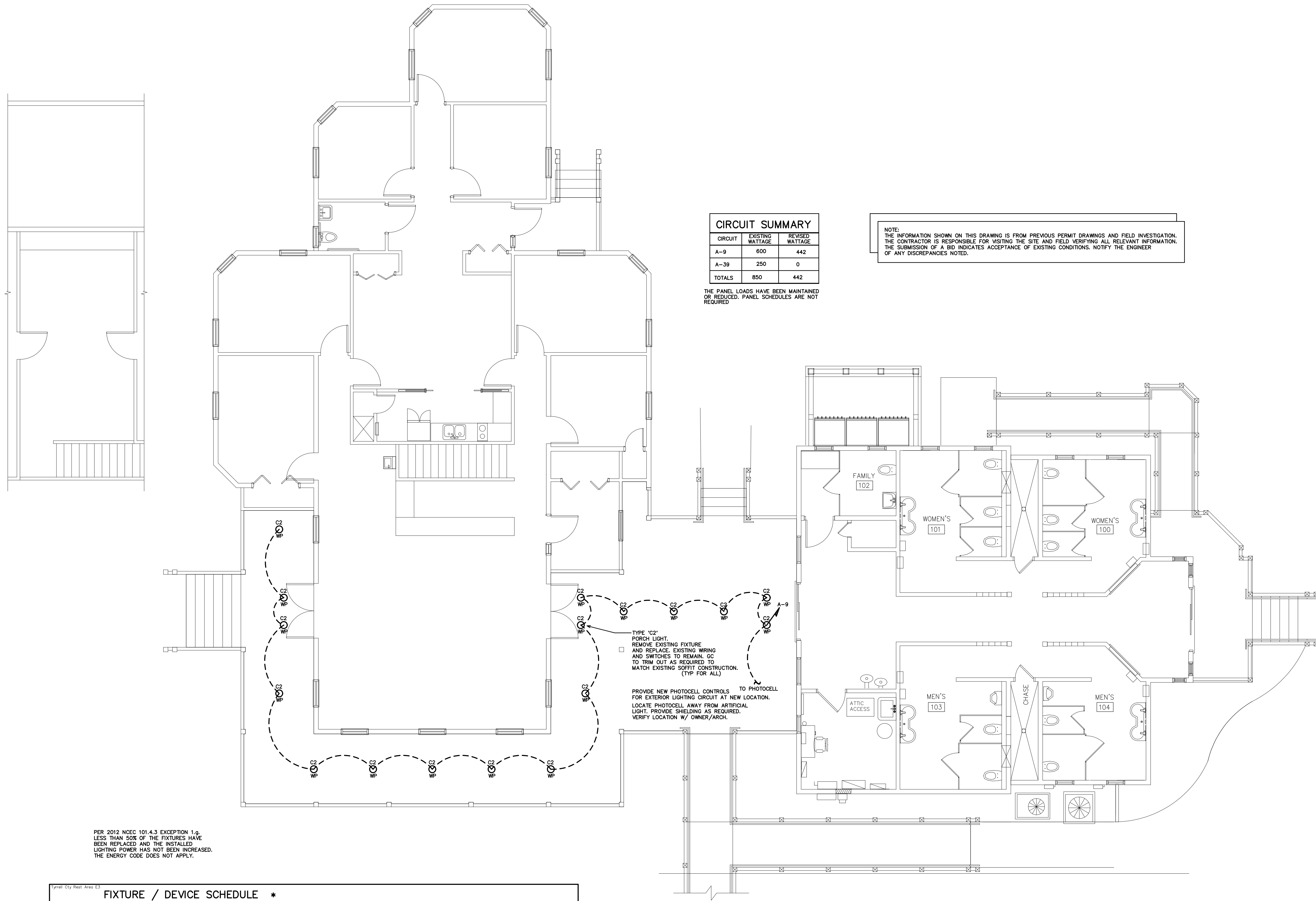
PROJECT NO.
1804a

DRAWING TITLE
ELECTRICAL PLAN



PLOT DATE 1/7/19

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CIRCUIT SUMMARY

CIRCUIT	EXISTING WATTAGE	REVISED WATTAGE
A-9	600	442
A-39	250	0
TOTALS	850	442

THE PANEL LOADS HAVE BEEN MAINTAINED OR REDUCED. PANEL SCHEDULES ARE NOT REQUIRED

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PER 2012 NCEC 101-4.3 EXCEPTION 1.g, LESS THAN 50% OF THE FIXTURES HAVE BEEN REPLACED AND THE INSTALLED LIGHTING POWER HAS NOT BEEN INCREASED. THE ENERGY CODE DOES NOT APPLY.

Tyrrell City Rest Area E3

FIXTURE / DEVICE SCHEDULE *

MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMP TYPE	BALLAST TYPE	VA/FIXTURE	REMARKS
C2	PRESCOLITE	LF6LEDG4-6LFLED7G430K	120	-	LED	-	26	EXTERIOR 6" LED RECESSED CAN, WATER-PROOF (WP) ***

* OR APPROVED EQUAL BY LITHONIA/DAYRITE. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY MOTION SENSOR, PROVIDE "PROGRAMMED RAPID START" BALLASTS. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY. 'EB' DENOTES ELECTRONIC BALLAST.

** VERIFY FIXTURE HAS INTEGRAL LOCAL DISCONNECTING MEANS PER NEC 410.130 (G) (2017).
THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.

1 REVISED ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"